

U.S. Department  
of Transportation

800 Independence Ave., S.W.  
Washington, D.C. 20591

**Federal Aviation  
Administration**

**Transmittal Letter 16-16**

**June 17, 2016**

**PREPARED BY THE AERONAUTICAL INFORMATION GROUP, AJV-53  
(AVAILABLE ON THE WEB AT [HTTP://NFDC.FAA.GOV](http://NFDC.FAA.GOV))**

**The enclosed Standard Instrument Approach Procedures, Departure  
Procedures/Takeoff Minimums and Fix Actions are effective as indicated.**

**The following is a corrected copy of a procedure previously published in TL 16-13 on May  
6, 2016 and in TL 16-15 on June 3, 2016.**

**.**

**Goodyear, AZ, Phoenix Goodyear, RNAV (GPS) RWY 3, Amdt 1  
Santa Rosa, CA, Charles M Schulz – Sonoma County, RNAV (GPS) RWY 2, Orig-C**

|                                                                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
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| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                       |        |     |         |                                                               |     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MISSED APPROACH                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                     |        |     |         | TO                                                            |     |         | COURSE AND DISTANCE                                                         |                              |         |                                                                                | ALTITUDE |         | LP: RW03<br>LNAV: RW03                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| POTER                                                                                                                                                                                                                                                    |        |     |         | HIGNI (FB)                                                    |     |         | 303.07 / 19.08                                                              |                              |         |                                                                                | 5000     |         | CLIMB TO 1900 THEN CLIMBING LEFT TURN TO 4000 DIRECT TATUY AND HOLD.                                                                                                                                                                                                                                                                                                                                                                                 |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| HIGNI (IAF)                                                                                                                                                                                                                                              |        |     |         | TATUY (NOPT) (FB)                                             |     |         | 319.62 / 9.32                                                               |                              |         |                                                                                | 4000     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TATUY (IF/IAF)                                                                                                                                                                                                                                           |        |     |         | RUPOY (FB)                                                    |     |         | 029.54 / 5.88                                                               |                              |         |                                                                                | 2900     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RUPOY (FAF)                                                                                                                                                                                                                                              |        |     |         | PEDVE/2.80 NM TO RW03 (FB)                                    |     |         | 029.52 / 3.18                                                               |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| PEDVE/2.80 NM TO RW03                                                                                                                                                                                                                                    |        |     |         | RW03 (MAP) (FO)                                               |     |         | 029.52 / 2.80                                                               |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RW03 (MAP)                                                                                                                                                                                                                                               |        |     |         | 1900 MSL                                                      |     |         | 029.52                                                                      |                              |         |                                                                                | 1900     |         | ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 1072 TWR 332351N/1122405W<br>FAS OBST: 1322 TREE 332223N/1122447W<br>CHART VDP AT 1.08 NM TO RW03.<br>WAAS CHANNEL # 42839<br>REFERENCE PATH ID: W03A<br>PEDVE TO RW03: 3.00/52.7.<br>CHART CIRCLING ICON.<br>CHART ARRIVAL HOLDING AT POTER: HOLD E, RT, 264.43 INBOUND, 5000<br>CHART 1322 TREE 332223N/1122447W<br>CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 1.44 DEGREES.<br>LTP HAE: 256.9 M |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1900 MSL                                                                                                                                                                                                                                                 |        |     |         | TATUY (FO)                                                    |     |         |                                                                             |                              |         |                                                                                | 4000     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 16-13 AND CORRECTED IN TL 16-15. FPAP LAT/LONG AND CRC CORRECTED.                                                                                                                     |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                     |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 2. HOLD SW TATUY, RT, 029.54 INBOUND, 4000 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                       |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 3. FAC: 029.52 FAF: RUPOY _____ DIST FAF TO MAP: 5.98 THLD: 5.98                                                                                                                                                                                         |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 4. MIN. ALT: TATUY 4000, RUPOY 2900, PEDVE/2.80 NM TO RW03 1880                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                           |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                                                                                                                                                                                    |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR                                                                                                                                                                                                                |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 8. MSA FROM: RW03 5800                                                                                                                                                                                                                                   |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MAG VAR: 10E EPOCH YEAR: 2020                                                                                                                                                                                                                            |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         | ALTERNATE: N A X                                                               |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                          |        | A   |         |                                                               | B   |         |                                                                             | C                            |         |                                                                                | D        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | E                                          |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          | DH/MDA | VIS | HAT/HAA | DH/MDA                                                        | VIS | HAT/HAA | DH/MDA                                                                      | VIS                          | HAT/HAA | DH/MDA                                                                         | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                               | VIS                                        | HAT/HAA |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LP MDA                                                                                                                                                                                                                                                   | 1340   | 1   | 386     | 1340                                                          | 1   | 386     | 1340                                                                        | 1 1/8                        | 386     | 1340                                                                           | 1 1/8    | 386     |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                 | 1580   | 1   | 626     | 1580                                                          | 1   | 626     | 1580                                                                        | 1 3/4                        | 626     | 1580                                                                           | 1 3/4    | 626     |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                 | 1580   | 1   | 611     | 1580                                                          | 1   | 611     | 1800                                                                        | 2 1/2                        | 831     | 1920                                                                           | 3        | 951     |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: PROCEDURE NA AT NIGHT.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT POTER ON V94 WESTBOUND.<br>(CONTINUED ON PAGE 2) |        |     |         |                                                               |     |         |                                                                             |                              |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CITY AND STATE<br>GOODYEAR, AZ                                                                                                                                                                                                                           |        |     |         | ELEVATION: 969 TDZE: 954<br>AIRPORT NAME:<br>PHOENIX GOODYEAR |     |         |                                                                             | FACILITY IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 3, AMDT 1, 07/21/2016 |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SUP: 4<br>AMDT: ORIG-B<br>DATED 04/28/2016 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |

|                                                                                                                                                                                                                                                      |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                |                   |
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| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33                                                                                                      |                                                     |           | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                |                   |
| NOTES, (CONT.):<br>CHART NOTE: VDP NA WHEN USING PHOENIX SKY HARBOR ALTIMETER SETTING.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE PHOENIX SKY HARBOR INTL ALTIMETER SETTING: INCREASE ALL MDA 80 FT AND VISIBILITY CAT C/D 1/4 SM. |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                |                   |
| CITY AND STATE<br>GOODYEAR, AZ                                                                                                                                                                                                                       | ELEVATION: 969<br>AIRPORT NAME:<br>PHOENIX GOODYEAR | TDZE: 954 | FACILITY IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 3, AMDT 1, 07/21/2016 | SUP:              |
|                                                                                                                                                                                                                                                      |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                | AMDT:             |
|                                                                                                                                                                                                                                                      |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                | DATED: 04/28/2016 |

QUALITY  
4  
ORIG-B  
CHECKED

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0  
SBAS SERVICE PROVIDER IDENTIFIER 0  
AIRPORT IDENTIFIER KGYR  
RUNWAY RW03  
APPROACH PERFORMANCE DESIGNATOR 0  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR 0  
REFERENCE PATH IDENTIFIER (APPROACH ID) W03A  
LTP/FTP LATITUDE 332450.7400N  
LTP/FTP LONGITUDE 1122302.2000W  
LTP/FTP ELLIPSOIDAL HEIGHT +02569  
FPAP LATITUDE 332559.5600N  
FPAP LONGITUDE 1122154.3900W  
THRESHOLD CROSSING HEIGHT (TCH) 00052.7  
TCH UNITS SELECTOR (METERS OR FEET USED) F  
GLIDEPATH ANGLE (GPA) 03.00  
COURSE WIDTH AT THRESHOLD 106.75  
LENGTH OFFSET 0000  
HORIZONTAL ALERT LIMIT (HAL) 40.0  
VERTICAL ALERT LIMIT (VAL) 0.0

CRC REMAINDER

D866E8CD

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K2  
LTP ORTHOMETRIC HEIGHT +02873  
FPAP ORTHOMETRIC HEIGHT +02873

CITY AND STATE

GOODYEAR, AZ

ELEVATION: 969

TDZE: 954

AIRPORT NAME:

PHOENIX GOODYEAR

FACILITY  
IDENTIFIER:  
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 3, AMDT 1, 07/21/2016

SUP:

AMDT:

DATED:

QUALITY  
4  
CHECKED

ORIG-B

04/28/2016

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                                                                                    |                        |                                     |     |                                                                                           |            |       |                                                                                                                                                                                                                                                                                                       |               |                | Bearings, headings, courses, and radials are magnetic. 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Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |   |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KGYR</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>POTER</td><td>010</td><td>POTER</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td>POTER</td><td>020</td><td>HIGNI</td><td>TF</td><td>FB</td><td>2.0</td><td>303.1</td><td></td><td></td><td></td><td></td><td></td><td>AA 05000</td><td></td><td>E A</td></tr> <tr><td>POTER</td><td>030</td><td>TATUY</td><td>TF</td><td>FB</td><td>1.0</td><td>319.6</td><td></td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>EE B</td></tr> <tr><td>TATUY</td><td>010</td><td>TATUY</td><td>HF</td><td>FO</td><td></td><td>029.5</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 04000</td><td></td><td>EE A</td></tr> <tr><td></td><td>010</td><td>TATUY</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>RUPOY</td><td>TF</td><td>FB</td><td>1.0</td><td>029.5</td><td></td><td></td><td></td><td>RW03</td><td></td><td>AA 02900</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>PEDVE</td><td>TF</td><td>FB</td><td>0.3</td><td>029.5</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 01880 GS 01887</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW03</td><td>TF</td><td>FO</td><td>0.3</td><td>029.5</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00995</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>029.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 01900</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>TATUY</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04000</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>TATUY</td><td>HM</td><td>FO</td><td></td><td>029.5</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 04000</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                      | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |            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                                                                                                                                                                            | 060                   | TATUY                                                                              | HM                     | FO                                  |     | 029.5                                                                                     |            |       | R                                                                                                                                                                                                                                                                                                     |               |                | AA 04000                                                                                                                                                                                                       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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| PEDVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUPOY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| TATUY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                             | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                    |     |                                                                                           |            |       |                                                                                                                                                                                                                                                                                                       |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |            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| RW03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N332450.74            | W1122302.20                                                                        | 00943                  | 52.7                                |     |                                                                                           |            |       |                                                                                                                                                                                                                                                                                                       |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |            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| CITY AND STATE<br><b>GOODYEAR, AZ</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | ELEVATION: <b>969</b> <b>TDZE: 954</b><br>AIRPORT NAME:<br><b>PHOENIX GOODYEAR</b> |                        | FACILITY IDENTIFIER:<br><b>RNAV</b> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 3, AMDT 1, 07/21/2016</b> |            |       | SUP: <span style="color: green; font-weight: bold;">QUALITY</span><br><div style="text-align: center; font-weight: bold; font-size: 1.2em;">4</div> AMDT: <b>ORIG-B</b><br><div style="text-align: center; color: green; font-weight: bold; font-size: 1.2em;">CHECKED</div> DATED: <b>04/28/2016</b> |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |   |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |

|                                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|-------------------------------------------------------------------------------|--------|-----|-----------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|------------|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----|----------|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                      |        |     |                                                                               |        |     | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |        |                                                                                    |            |        |       | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATH, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                          |     |          |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                    |        |     | TO                                                                            |        |     | COURSE AND DISTANCE                                                         |        |                                                                                    | ALTITUDE   |        |       | LP: ZIVMA<br>LNAV: ZIVMA                                                                                                                                                                                                                                                                                                                                              |                                          |     |          |  |  |
| PYE VORTAC (IAF)                                                                                                                                                                                                                                                                                                                                        |        |     | YAPUB (FB)                                                                    |        |     | 329.22 / 15.03                                                              |        |                                                                                    | 3000       |        |       | CLIMB TO 6000 DIRECT UVNOQ AND ON TRACK 290.61 TO CABEX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000.                                                                                                                                                                                                                                                                     |                                          |     |          |  |  |
| BOARS (IAF)                                                                                                                                                                                                                                                                                                                                             |        |     | YAPUB (FB)                                                                    |        |     | 039.79 / 10.16                                                              |        |                                                                                    | 3000       |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| YAPUB (IF)                                                                                                                                                                                                                                                                                                                                              |        |     | NAYIR (FB)                                                                    |        |     | 013.09 / 6.67                                                               |        |                                                                                    | 2000       |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| NAYIR (FAF)                                                                                                                                                                                                                                                                                                                                             |        |     | ZASBU/1.14 NM TO ZIVMA (FB)                                                   |        |     | 013.13 / 3.74                                                               |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| ZASBU/1.14 NM TO ZIVMA                                                                                                                                                                                                                                                                                                                                  |        |     | ZIVMA (MAP) (FO)                                                              |        |     | 013.13 / 1.14                                                               |        |                                                                                    |            |        |       | ADDITIONAL FLIGHT DATA:<br>HOLD SE, LT, 311.00 INBOUND.<br>CHART FAS OBST: 274 TREE 383001N/1224936W<br>CHART FAS OBST: 489 TREE 382912N/1225059W<br>555 AAO 382521N/1225312W.<br>610 AAO 382530N/1225418W.<br>WAAS CHANNEL # 69230<br>REFERENCE PATH ID: W02A<br>NAYIR TO RW02: 3.00/45.<br>CHART CIRCLING ICON.<br>LTP HAE: 7.8 M                                   |                                          |     |          |  |  |
| ZIVMA (MAP)                                                                                                                                                                                                                                                                                                                                             |        |     | 500 MSL                                                                       |        |     | 013.13                                                                      |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                      |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                    |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       | MAG VAR: 16E EPOCH YEAR: 1985                                                                                                                                                                                                                                                                                                                                         |                                          |     |          |  |  |
| 2. PROFILE STARTS AT YAPUB                                                                                                                                                                                                                                                                                                                              |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 3. FAC: 013.13 FAF: NAYIR DIST FAF TO MAP: _____ THLD: _____                                                                                                                                                                                                                                                                                            |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 4. MIN. ALT: YAPUB 3000, NAYIR 2000, ZASBU/1.14 NM TO ZIVMA 800                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                          |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                   |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                                               |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| 8. MSA FROM: ZIVMA 6000                                                                                                                                                                                                                                                                                                                                 |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     | ALTERNATE: N A                                                              |        |                                                                                    | STANDARD @ |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                         |        | A   |                                                                               | B      |     | C                                                                           |        |                                                                                    | D          |        |       | E                                                                                                                                                                                                                                                                                                                                                                     |                                          |     |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                         | DH/MDA | VIS | HATH/HAA                                                                      | DH/MDA | VIS | HATH/HAA                                                                    | DH/MDA | VIS                                                                                | HATH/HAA   | DH/MDA | VIS   | HATH/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA                                   | VIS | HATH/HAA |  |  |
| LP MDA                                                                                                                                                                                                                                                                                                                                                  | 500    | 1   | 371                                                                           | 500    | 1   | 371                                                                         | 500    | 1                                                                                  | 371        | 500    | 1     | 371                                                                                                                                                                                                                                                                                                                                                                   |                                          |     |          |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                | 660    | 1   | 531                                                                           | 660    | 1   | 531                                                                         | 660    | 1 1/2                                                                              | 531        | 660    | 1 1/2 | 531                                                                                                                                                                                                                                                                                                                                                                   |                                          |     |          |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                | 660    | 1   | 531                                                                           | 680    | 1   | 551                                                                         | 1080   | 3                                                                                  | 951        | 1420   | 3     | 1291                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                         |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BOARS ON V199 SOUTHEAST BOUND.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PYE VORTAC AIRWAY RADIALS 335 CW 349.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PETALUMA ALTIMETER SETTING AND INCREASE<br>(CONTINUED ON PAGE 2) |        |     |                                                                               |        |     |                                                                             |        |                                                                                    |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |  |  |
| CITY AND STATE<br>SANTA ROSA, CA                                                                                                                                                                                                                                                                                                                        |        |     | ELEVATION: 129 TDZE: 129<br>AIRPORT NAME:<br>CHARLES M SCHULZ - SONOMA COUNTY |        |     | FACILITY IDENTIFIER:<br>RNAV                                                |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 2, ORIG-C<br>21 JULY 2016 |            |        |       |                                                                                                                                                                                                                                                                                                                                                                       | SUP:<br>AMDT: ORIG-B<br>DATED 11/13/2014 |     |          |  |  |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
 RNAV - STANDARD  
 INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATH, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| FROM    | TO         | COURSE AND DISTANCE | ALTITUDE |
|---------|------------|---------------------|----------|
| 500 MSL | UVNOQ (FB) |                     |          |
| UVNOQ   | CABEX (FO) | 290.61 / 18.87      | 6000     |

## NOTES, (CONT.):

ALL MDA 60 FT AND VISIBILITY LP AND LNAV CATS C AND D 1/4 MILE.

CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PROFILE NOTE: VGS1 AND DESCENT ANGLES NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET})

CITY AND STATE

SANTA ROSA, CA

|                                  |           |
|----------------------------------|-----------|
| ELEVATION: 129                   | TDZE: 129 |
| AIRPORT NAME:                    |           |
| CHARLES M SCHULZ - SONOMA COUNTY |           |

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
**RNAV (GPS) RWY 2, ORIG-C**  
 21 JULY 2016

|        |            |
|--------|------------|
| SUP:   |            |
| AMDT:  | ORIG-B     |
| DATED: | 11/13/2014 |

CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSTS          |
| RUNWAY                                   | RW02          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W02A          |
| LTP/FTP LATITUDE                         | 383011.3965N  |
| LTP/FTP LONGITUDE                        | 1224915.4635W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00078        |
| FPAP LATITUDE                            | 383129.2720N  |
| FPAP LONGITUDE                           | 1224820.1245W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00045.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1168          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 0.0           |
| <br><u>CRC REMAINDER</u>                 | <br>15679B85  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00392 |
| FPAP ORTHOMETRIC HEIGHT | +00392 |

CITY AND STATE  
SANTA ROSA, CA

ELEVATION: 129 TDZE: 129  
AIRPORT NAME:  
CHARLES M SCHULZ - SONOMA COUNTY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 2, ORIG-C  
21 JULY 2016

SUP: **QUALITY  
23  
CHECKED**  
AMDT: ORIG-B  
DATED: 11/13/2014



| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                       |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KSTS</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>BOARS</td><td>010</td><td>BOARS</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>BOARS</td><td>020</td><td>YAPUB</td><td>TF</td><td>FB</td><td>1.0</td><td>039.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td>PYE</td><td>010</td><td>PYE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>V A</td></tr> <tr><td>PYE</td><td>020</td><td>YAPUB</td><td>TF</td><td>FB</td><td>1.0</td><td>329.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>YAPUB</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>NAYIR</td><td>TF</td><td>FB</td><td>1.0</td><td>013.1</td><td></td><td></td><td></td><td>ZIVMA</td><td></td><td>AA 02000</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>ZASBU</td><td>TF</td><td>FB</td><td>0.3</td><td>013.1</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 00800 GS 00810</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>ZIVMA</td><td>TF</td><td>FO</td><td>0.3</td><td>013.1</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00174</td><td></td><td>EY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>013.1</td><td></td><td></td><td></td><td></td><td></td><td>AA 00500</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>UVNOQ</td><td>DF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td></td><td>060</td><td>CABEX</td><td>TF</td><td>FO</td><td>1.0</td><td>290.6</td><td></td><td></td><td></td><td></td><td></td><td>AA 06000</td><td></td><td>EY</td></tr> <tr><td></td><td>070</td><td>CABEX</td><td>HM</td><td>FO</td><td></td><td>311.0</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 06000</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-top: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                       | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  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                       |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  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                       |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  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| NAYIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| YAPUB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| ZIVMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  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| RW02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                       |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  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              |                  |      |            |             |       |      |
| CITY AND STATE<br><b>SANTA ROSA, CA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | ELEVATION: <b>129</b> <b>TDZE: 129</b><br>AIRPORT NAME:<br><b>CHARLES M SCHULZ - SONOMA COUNTY</b> |                        | FACILITY IDENTIFIER:<br><div style="text-align: center; font-weight: bold;">RNAV</div> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center; font-weight: bold;">RNAV (GPS) RWY 2, ORIG-C</div><br><div style="text-align: center;">21 JULY 2016</div> |            |       | SUP:<br><hr/> AMDT: <b>ORIG-B</b><br><hr/> DATED: <b>11/13/2014</b> |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |

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[4910-13]

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 97**

[Docket No. [31082](#); Amdt. No. [3701](#)]

**Standard Instrument Approach Procedures, and Takeoff Minimums  
and Obstacle Departure Procedures; Miscellaneous Amendments**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** This rule establishes, amends, suspends, or removes Standard Instrument Approach Procedures (SIAPs) and associated Takeoff Minimums and Obstacle Departure Procedures (ODPs) for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, adding new obstacles, or changing air traffic requirements. These changes are designed to provide safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

**DATES:** This rule is effective [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]. The compliance date for each SIAP, associated Takeoff Minimums, and ODP is specified in the amendatory provisions.

The incorporation by reference of certain publications

listed in the regulations is approved by the Director of the Federal Register as of [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**ADDRESSES:** Availability of matters incorporated by reference in the amendment is as follows:

**For Examination**

1. U.S. Department of Transportation, Docket Ops-M30, 1200 New Jersey Avenue SE, West Bldg., Ground Floor, Washington, D.C., 20590-0001.

2. The FAA Air Traffic Organization Service Area in which the affected airport is located;

3. The office of Aeronautical Navigation Products, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:  
[http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

**Availability**

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center at [nfdc.faa.gov](http://nfdc.faa.gov) to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from the FAA Air Traffic Organization Service Area in which the affected airport is located.

**FOR FURTHER INFORMATION CONTACT:** Thomas J. Nichols, Flight Procedure Standards Branch (AFS-420), Flight Technologies and Programs Divisions, Flight Standards Service, Federal Aviation Administration, Mike Monroney Aeronautical Center, 6500 South MacArthur Blvd. Oklahoma City, OK. 73169 (Mail Address: P.O. Box 25082, Oklahoma City, OK 73125) Telephone: (405) 954-4164.

**SUPPLEMENTARY INFORMATION:**

This rule amends Title 14 of the Code of Federal Regulations, Part 97 (14 CFR part 97), by establishing, amending, suspending, or removes SIAPS, Takeoff Minimums and/or ODPS. The complete regulatory description of each SIAP and its associated Takeoff Minimums or ODP for an identified airport is listed on FAA form documents which are incorporated by reference in this amendment under 5 U.S.C. 552(a), 1 CFR part 51, and 14 CFR part §97.20. The applicable FAA forms are FAA Forms 8260-3, 8260-4, 8260-5, 8260-15A, and 8260-15B when required by an entry on 8260-15A.

The large number of SIAPs, Takeoff Minimums and ODPs, their complex nature, and the need for a special format make publication in the **Federal Register** expensive and impractical. Further, airmen do not use the regulatory text of the SIAPs, Takeoff Minimums or ODPs, but instead refer to their graphic depiction on charts printed by publishers of aeronautical materials. Thus, the advantages of incorporation by reference are realized and publication of the complete description of each

SIAP, Takeoff Minimums and ODP listed on FAA form documents is unnecessary. This amendment provides the affected CFR sections and specifies the types of SIAPs, Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure, and the amendment number.

### **Availability and Summary of Material Incorporated by Reference**

The material incorporated by reference is publicly available as listed in the ADDRESSES section.

The material incorporated by reference describes SIAPS, Takeoff Minimums and/or ODPS as identified in the amendatory language for part 97 of this final rule.

### **The Rule**

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP, Takeoff Minimums and ODP as Amended in the transmittal. Some SIAP and Takeoff Minimums and textual ODP amendments may have been issued previously by the FAA in a Flight Data Center (FDC) Notice to Airmen (NOTAM) as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for some SIAP and Takeoff Minimums and ODP amendments may require making them effective in less than 30 days. For the remaining SIAPs and Takeoff Minimums and ODPs, an effective date at least 30 days after publication is provided.

Further, the SIAPs and Takeoff Minimums and ODPs contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied to the conditions existing or anticipated at the affected airports. Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C 553(d), good cause exists for making some SIAPs effective in less than 30 days.

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore--(1) is not a "significant regulatory action" under Executive Order 12866;(2) is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034; February 26,1979) ; and (3)does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. For the same reason, the FAA certifies that this amendment will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

**List of Subjects in 14 CFR part 97:**

Air Traffic Control, Airports, Incorporation by reference,  
Navigation (Air).

Issued in Washington, DC on [JUNE 17, 2016](#)

A handwritten signature in black ink, appearing to read "John S. Duncan", with a long horizontal flourish extending to the right.

John S. Duncan  
Director, Flight Standards Service

**ADOPTION OF THE AMENDMENT**

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal Regulations, Part 97 (14 CFR part 97) is amended by establishing, amending, suspending, or removing Standard Instrument Approach Procedures and/or Takeoff Minimums and Obstacle Departure Procedures effective at 0901 UTC on the dates specified, as follows:

**Part 97—Standard Instrument Approach Procedures**

1. The authority citation for part 97 continues to read as follows:

AUTHORITY: 49 U.S.C. 106(f), 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:



**Effective 21 JULY 2016**

Unalaska, AK, Unalaska, Takeoff Minimums and Obstacle DP, Amdt 5  
 Page, AZ, Page Muni, Takeoff Minimums and Obstacle DP, Amdt 2A  
 Madera, CA, Madera Muni, RNAV (GPS) RWY 12, Amdt 1  
 Madera, CA, Madera Muni, RNAV (GPS) RWY 30, Amdt 1  
 Madera, CA, Madera Muni, Takeoff Minimums and Obstacle DP, Amdt 4  
 San Francisco, CA, San Francisco Intl, ILS OR LOC RWY 28L, ILS RWY 28L (SA CAT II), Amdt 25A  
 San Francisco, CA, San Francisco Intl, ILS OR LOC RWY 28R, ILS RWY 28R (SA CAT I), ILS RWY 28R (CAT II), ILS RWY 28R (CAT III), Amdt 13A  
 San Francisco, CA, San Francisco Intl, RNAV (GPS) RWY 28L, Amdt 5A  
 San Francisco, CA, San Francisco Intl, RNAV (GPS) Z RWY 28R, Amdt 5A  
 San Francisco, CA, San Francisco Intl, RNAV (RNP) Y RWY 28R, Amdt 3A  
 San Jose, CA, Norman Y Mineta San Jose Intl, ILS OR LOC RWY 12R, Amdt 8A  
 San Jose, CA, Norman Y Mineta San Jose Intl, ILS OR LOC RWY 30L, ILS RWY 30L (SA CAT I), ILS RWY 30L (SA CAT II), Amdt 25  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (GPS) Y RWY 12L, Amdt 3A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (GPS) Y RWY 12R, Amdt 3A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (GPS) Y RWY 30L, Amdt 3A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (GPS) Y RWY 30R, Amdt 3A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (RNP) Z RWY 12L, Amdt 2A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (RNP) Z RWY 12R, Amdt 3A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (RNP) Z RWY 30L, Amdt 2A  
 San Jose, CA, Norman Y Mineta San Jose Intl, RNAV (RNP) Z RWY 30R, Amdt 1A  
 Van Nuys, CA, Van Nuys, ILS Y RWY 16R, Amdt 6  
 Van Nuys, CA, Van Nuys, ILS Z RWY 16R, Orig  
 Van Nuys, CA, Van Nuys, VOR-A, Amdt 4B  
 Van Nuys, CA, Van Nuys, VOR-B, Amdt 3  
 Miami, FL, Miami Intl, ILS OR LOC RWY 26L, Amdt 16  
 Miami, FL, Miami Intl, ILS OR LOC RWY 27, Amdt 26  
 Miami, FL, Miami Intl, RNAV (GPS) RWY 26R, Amdt 3  
 Miami, FL, Miami Intl, RNAV (GPS) Z RWY 26L, Amdt 2  
 Miami, FL, Miami Intl, RNAV (GPS) Z RWY 27, Amdt 3  
 Miami, FL, Miami Intl, RNAV (RNP) Y RWY 26L, Amdt 1  
 Miami, FL, Miami Intl, RNAV (RNP) Y RWY 27, Amdt 2  
 Macon, GA, Macon Downtown, LOC RWY 10, Amdt 8  
 Macon, GA, Macon Downtown, RNAV (GPS) RWY 10, Amdt 2  
 Macon, GA, Macon Downtown, RNAV (GPS) RWY 28, Amdt 2  
 Macon, GA, Macon Downtown, Takeoff Minimums and Obstacle DP, Amdt 7  
 Moultrie, GA, Moultrie Muni, NDB-A, Orig-B  
 Tifton, GA, Henry Tift Myers, ILS OR LOC RWY 33, Amdt 2  
 Tifton, GA, Henry Tift Myers, RNAV (GPS) RWY 15, Orig  
 Tifton, GA, Henry Tift Myers, RNAV (GPS) RWY 28, Amdt 1  
 Tifton, GA, Henry Tift Myers, RNAV (GPS) RWY 33, Amdt 1

Tifton, GA, Henry Tift Myers, Takeoff Minimums and Obstacle DP, Amdt 6  
 Tifton, GA, Henry Tift Myers, VOR RWY 28, Amdt 10A, CANCELED  
 Hailey, ID, Friedman Memorial, RNAV (GPS) W RWY 31, Amdt 2, CANCELED  
 Hailey, ID, Friedman Memorial, RNAV (GPS) X RWY 31, Orig  
 Hailey, ID, Friedman Memorial, RNAV (GPS) X RWY 31, Amdt 1, CANCELED  
 Hailey, ID, Friedman Memorial, RNAV (GPS) Y RWY 31, Orig  
 Hailey, ID, Friedman Memorial, RNAV (RNP) Y RWY 31, Amdt 1B, CANCELED  
 Hailey, ID, Friedman Memorial, Takeoff Minimums and Obstacle DP, Amdt 3  
 Paris, IL, Edgar County, RNAV (GPS) RWY 9, Amdt 1  
 Paris, IL, Edgar County, RNAV (GPS) RWY 18, Orig  
 Paris, IL, Edgar County, RNAV (GPS) RWY 27, Amdt 1  
 Paris, IL, Edgar County, RNAV (GPS) RWY 36, Orig  
 Paris, IL, Edgar County, Takeoff Minimums and Obstacle DP, Amdt 1  
 Coldwater, KS, Comanche County, RNAV (GPS) RWY 17, Orig  
 Coldwater, KS, Comanche County, Takeoff Minimums and Obstacle DP, Orig  
 Harlan, KY, Tucker-Guthrie Memorial, RNAV (GPS)-A, Orig  
 Harlan, KY, Tucker-Guthrie Memorial, Takeoff Minimums and Obstacle DP, Orig  
 Richmond, KY, Central Kentucky Regional, RNAV (GPS) RWY 18, Amdt 1D  
 Richmond, KY, Central Kentucky Regional, RNAV (GPS) RWY 36, Amdt 2B  
 Richmond, KY, Central Kentucky Regional, Takeoff Minimums and Obstacle DP, Amdt 1A  
 Richmond, KY, Central Kentucky Regional, VOR RWY 18, Amdt 7B  
 Cambridge, MD, Cambridge-Dorchester Rgnl, NDB RWY 34, Amdt 8  
 Cambridge, MD, Cambridge-Dorchester Rgnl, RNAV (GPS) RWY 34, Orig  
 Cambridge, MD, Cambridge-Dorchester Rgnl, Takeoff Minimums and Obstacle DP, Amdt 2  
 Presque Isle, ME, Northern Maine Rgnl Arpt at Presque IS, RNAV (GPS) RWY 28, Amdt 1A  
 Holly Springs, MS, Holly Springs-Marshall County, RNAV (GPS) RWY 18, Orig  
 Holly Springs, MS, Holly Springs-Marshall County, RNAV (GPS) RWY 36, Orig  
 Holly Springs, MS, Holly Springs-Marshall County, VOR RWY 18, Amdt 7  
 Beach, ND, Beach, RNAV (GPS) RWY 12, Orig  
 Beach, ND, Beach, RNAV (GPS) RWY 30, Orig  
 Beach, ND, Beach, Takeoff Minimums and Obstacle DP, Orig  
 Hornell, NY, Hornell Muni, RNAV (GPS) RWY 18, Orig-A  
 Enid, OK, Enid Woodring Rgnl, ILS OR LOC RWY 35, Amdt 6  
 Ketchum, OK, South Grand Lake Rgnl, Takeoff Minimums and Obstacle DP, Orig  
 Newport, OR, Newport Muni, ILS OR LOC RWY 16, Amdt 2  
 Newport, OR, Newport Muni, RNAV (GPS) RWY 16, Amdt 1  
 Newport, OR, Newport Muni, RNAV (GPS) RWY 34, Amdt 1  
 Newport, OR, Newport Muni, VOR RWY 16, Amdt 9  
 Newport, OR, Newport Muni, VOR-A, Amdt 5  
 Titusville, PA, Titusville, RNAV (GPS) RWY 1, Orig  
 Titusville, PA, Titusville, RNAV (GPS) RWY 19, Orig  
 Titusville, PA, Titusville, VOR OR GPS-A, Amdt 5, CANCELED  
 Martin, SD, Martin Muni, RNAV (GPS) RWY 32, Orig-A  
 Winner, SD, Winner Rgnl, RNAV (GPS) RWY 31, Amdt 1  
 Winner, SD, Winner Rgnl, Takeoff Minimums and Obstacle DP, Amdt 4

Union City, TN, Everett-Stewart Rgnl, ILS OR LOC RWY 1, Amdt 3  
Union City, TN, Everett-Stewart Rgnl, RNAV (GPS) RWY 1, Amdt 4  
Union City, TN, Everett-Stewart Rgnl, RNAV (GPS) RWY 19, Amdt 2  
Union City, TN, Everett-Stewart Rgnl, VOR/DME-A, Amdt 9, CANCELED  
Spokane, WA, Felts Field, ILS OR LOC RWY 22R, Amdt 1D  
Spokane, WA, Felts Field, VOR RWY 4L, Amdt 6  
Sutton, WV, Braxton County, Takeoff Minimums and Obstacle DP, Amdt 1  
Big Piney, WY, Miley Memorial Field, Takeoff Minimums and Obstacle DP, Orig-A

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State  | Airport  | Effective Date | Amdt. No. |
|--------------|----------|----------------|-----------|
| UNALASKA, AK | UNALASKA | 21 JULY 2016   | 5         |

**TAKEOFF MINIMUMS:**

RWY 13, 1000-3. NA AT NIGHT - OBSTACLES.  
RWY 31, 600-2

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 13, 31: CLIMB IN VISUAL CONDITIONS UNTIL ESTABLISHED ON DUT NDB/DME 360 BEARING OVER JADPI/DUT 2.00 DME (VISUAL CONDITIONS MUST BE MAINTAINED FROM TAKEOFF UNTIL ESTABLISHED OVER JADPI AT OR ABOVE 400). CROSS JADPI AT OR ABOVE 400 THEN CLIMB ON THE 360 BEARING FROM DUT NDB/DME TO 5500 BEFORE PROCEEDING ON COURSE.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

RAPIDLY RISING TERRAIN TO ABOVE 2000 FT MSL EAST, SOUTH, AND WEST OF AIRPORT.

**CONTROLLING OBSTACLES:**

RWY 13, 31: 6200 AAO 535314.20N-1665651.70W

**REMARKS:**



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State  | Airport  | Effective Date | Amdt. No. |
|--------------|----------|----------------|-----------|
| UNALASKA, AK | UNALASKA | 21 JULY 2016   | 5         |

**FLIGHT INSPECTED BY:**

KIM M BROWN     *Digitally signed by*     FICO     05/12/2016  
**JOHNNIE BAKER**

**REQUIRED EFFECTIVE DATE:**

**DEVELOPED BY:**

Jun 13, 2016

ROBERT GRIM     AJV-5431     02/23/2016

*Digitally signed by*

**ROBERT GRIM**

Feb 24, 2016

**APPROVED BY:**

*Digitally signed by*

**JOHNNIE BAKER**

LONNIE EVERHART     Jun 13, 2016     AJV-543

**COORDINATED WITH:**

ATA, ALPA, AOPA, NBAA, AMGR, ZAN

**CHANGES:**

1. DUT NDB/DME BEARING CHANGED FROM 355 TO 360.
2. RWY 12/30 CHANGED TO RWY 13/31.
3. TAKEOFF MINIMUMS: RWY 13, CHANGED FROM 1000-3 TO 1000-3, NA AT NIGHT - OBSTACLES.

**REASONS:**

1. DUTCH HARBOR (DUT) NDB MAGNETIC VARIATION ROTATION FROM E14 TO E9.
2. AIRPORT (PADU) MAGNETIC VARIATION ROTATION FROM E14 TO E9.
3. PER P-NOTAM # 3-9699 (AMDT 4A). ISSUED BY WESTERN FPT/CHRISTIANSEN.

QUALITY  
23  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport   | Effective Date | Amdt. No. |
|-------------|-----------|----------------|-----------|
| PAGE, AZ    | PAGE MUNI | 21 JULY 2016   | 2A        |

**TAKEOFF MINIMUMS:**

RWY 7, 25: NA – OBSTACLES.

RWY 33: STANDARD.

RWY 15: STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 6500, OR 3100-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 33: CLIMB HEADING 336.11 TO 6000, THEN CLIMBING LEFT TURN DIRECT PGA VOR/DME, THENCE...

RWY 15: CLIMB HEADING 156.11 TO 6200, THEN CLIMBING RIGHT TURN DIRECT PGA VOR/DME, THENCE...

...CROSS PGA VOR/DME AT OR ABOVE 7700. CONTINUE CLIMB IN PGA VOR/DME HOLDING PATTERN (HOLD NW, RIGHT TURNS 147.00 INBOUND) TO CROSS PGA VOR/DME AT OR ABOVE MEA/MCA FOR DIRECTION OF FLIGHT.

**VISUAL CLIMB OVER AIRPORT:**

RWY 15: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS PAGE MUNI AIRPORT AT OR ABOVE 7300 BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 15, RISING TERRAIN 192 FT FROM DER, 272 FT RIGHT OF CENTERLINE, 4323 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 15: 5077 FT MSL TOWER 365046.94N-1112655.16W (CLIMB GRADIENT), 10502 FT MSL TOWER 370203.00N-1105212.00W (VCOA).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 15, 33 - 10502 FT MSL TOWER 370203.00N-1105212.00W.

**REMARKS:**



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport   | Effective Date | Amdt. No. |
|-------------|-----------|----------------|-----------|
| PAGE, AZ    | PAGE MUNI | 21 JULY 2016   | 2A        |

**FLIGHT INSPECTED BY:**

JAMES M MEEK

FICO

*Digitally signed by*  
**BEV L BORDY** 5/27/2016  
May 31, 2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

ALAN WILL (IVAN BLANCO)

AJV-5432

*Digitally signed by*  
**BEV L BORDY** 3/11/16  
May 31, 2016

**APPROVED BY:**

LONNIE EVEHART

AJV-5430

*Digitally signed by*  
**BEV L BORDY**  
May 31, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, AMGR, ZDV

**CHANGES:**

1. REMOVED TAKEOFF MINIMUMS OF 300-1 FROM RWY 15, INCREASED CLIMB GRADIENT FROM 252 FT/NM TO 285 FT/NM AND INCREASED CLIMB-TO ALTITUDE FROM 6000 TO 6200.
2. CHANGED MINIMUMS FOR CLIMB IN VISUAL CONDITIONS FROM 1900-3 TO 3100-3.
3. CHANGED VCOA CLIMB TO ALTITUDE FROM 6100 TO 7300.
4. REMOVED EXCESSIVE LIST OF CONTROLLING OBSTACLES.
5. REMOVED OLD RWY 15 TAKEOFF OBSTACLES AND ADDED NEW LOW-CLOSE-IN OBSTACLE.
6. CHANGED INITIAL CLIMB HEADINGS ON DEPARTURE PROCEDURES TO REFLECT RUNWAY HEADINGS.

**REASONS:**

1. OBSTACLE CAUSING TAKEOFF MINIMUMS IS BEYOND 3 SM AND HAS 5E ACCURACY CODE REQUIRING AC ADJUSTMENT WHICH RAISED CLIMB GRADIENT. THE INCREASED CLIMB-TO ALTITUDE ENSURES AIRCRAFT CROSS PGA AT OR ABOVE 7700.
2. EVALUATION IDENTIFIED NEW CONTROLLING OBSTACLE.
3. EVALUATION IDENTIFIED NEW CONTROLLING OBSTACLE.
4. DATABASE MODIFICATION AND EVALUATION IDENTIFIED OBSTACLES WERE NOT CONTROLLING OBSTACLES.
5. DATABASE MODIFICATION.
6. INITIAL CLIMB HEADINGS DID NOT REFLECT RUNWAY HEADINGS.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------|--------|--------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------|--------|-----|---------|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                        |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | TO                                                              |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                                     |        | ALTITUDE                                                                                   |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW12<br><br>CLIMB TO 700, THEN CLIMBING RIGHT TURN TO 2000 DIRECT KITBY AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 119.00 INBOUND.<br>CHART FAS OBST: 304 TREE 370000N/1200733W<br>DISTANCE TO THLD FROM 250 HAT: 0.68 NM.<br>*LNAV ONLY.<br>CHART VDP AT 0.87 MILES TO RW12*<br>WAAS CHANNEL # 62909<br>REFERENCE PATH ID: W12A<br>CHART CIRCLING ICON<br>LTP HAE: 43.5 M |     |                                                        |        |     |         |
| BLEAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | RUGUE (FB)                                                      |         | 310.35 / 16.43                                                                                                                                                                                                                                                                                                                                                       |     |                                     |        | 2000                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| RUGUE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | IDAYI (FB)                                                      |         | 031.94 / 7.00                                                                                                                                                                                                                                                                                                                                                        |     |                                     |        | 2000                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| UYOKA (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | IDAYI (FB)                                                      |         | 212.00 / 8.75                                                                                                                                                                                                                                                                                                                                                        |     |                                     |        | 2000                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| IDAYI (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | FOSAB (FB)                                                      |         | 121.92 / 5.93                                                                                                                                                                                                                                                                                                                                                        |     |                                     |        | 1900                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| FOSAB (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | CIVSI/2.50 NM TO RW12 (FB)                                      |         | 121.98 / 2.57                                                                                                                                                                                                                                                                                                                                                        |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| CIVSI/2.50 NM TO RW12<br>(SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | RW12 (MAP) (FO)                                                 |         | 121.98 / 2.50                                                                                                                                                                                                                                                                                                                                                        |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT IDAYI<br>3. FAC: <u>121.98</u> FAF: <u>FOSAB</u> DIST FAF TO MAP: <u>5.08</u> THLD: <u>5.08</u><br>4. MIN. ALT: <u>IDAYI 2000, FOSAB 1900, CIVSI/2.50 NM TO RW12 1080*</u><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1900</u> GS ALT AT: <u>FOSAB 1900</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>34.0</u> 34:1 IS CLEAR<br>8. MSA FROM: <u>RW12 5800</u> |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         | MAG VAR: <u>13E</u> EPOCH YEAR: <u>2020</u>                                                                                                                                                                                                                                                                                                                                                                                |     |                                                        |        |     |         |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        | ALTERNATE: N A                                                                             |         | STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                                        |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | A                                                               |         | B                                                                                                                                                                                                                                                                                                                                                                    |     | C                                   |        | D                                                                                          |         | E                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                        |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DH/MDA | VIS                                                             | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                             | DH/MDA | VIS                                                                                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                     | VIS | HAT/HAA                                                | DH/MDA | VIS | HAT/HAA |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 503    | 7/8                                                             | 250     | 503                                                                                                                                                                                                                                                                                                                                                                  | 7/8 | 250                                 | 503    | 7/8                                                                                        | 250     |                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  |                                                        |        |     |         |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 503    | 7/8                                                             | 250     | 503                                                                                                                                                                                                                                                                                                                                                                  | 7/8 | 250                                 | 503    | 7/8                                                                                        | 250     |                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  |                                                        |        |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 560    | 1                                                               | 307     | 560                                                                                                                                                                                                                                                                                                                                                                  | 1   | 307                                 | 560    | 7/8                                                                                        | 307     |                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  |                                                        |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 680    | 1                                                               | 425     | 720                                                                                                                                                                                                                                                                                                                                                                  | 1   | 465                                 | 720    | 1 1/2                                                                                      | 465     |                                                                                                                                                                                                                                                                                                                                                                                                                            | NA  |                                                        |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -4C (25F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT UYOKA ON V23 NORTHWEST BOUND.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                         |        |                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |                                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                        |        |     |         |
| CITY AND STATE<br><b>MADERA, CA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | ELEVATION: 255 TDZE: 253<br>AIRPORT NAME:<br><b>MADERA MUNI</b> |         |                                                                                                                                                                                                                                                                                                                                                                      |     | FACILITY IDENTIFIER:<br><b>RNAV</b> |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 12, AMDT 1</b><br>21 JULY 2016 |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |     | SUP:<br>AMDT: <b>ORIG-A</b><br>DATED <b>11/13/2014</b> |        |     |         |

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**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## TERMINAL ROUTES, (CONT.):

| FROM       | TO         | COURSE AND DISTANCE | ALTITUDE |
|------------|------------|---------------------|----------|
| RW12 (MAP) | 700 MSL    | 121.98              | 700      |
| 700 MSL    | KITBY (FO) |                     | 2000     |

## NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BLEAR ON V230-585 NORTHEAST BOUND.

CHART NOTE: BARO-VNAV NA WHEN USING FRESNO YOSEMITE INTL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FRESNO YOSEMITE INTL ALTIMETER SETTING AND INCREASE ALL DA 64 FEET AND ALL VISIBILITY 1/4 MILE; INCREASE ALL MDA 80 FEET AND ALL VISIBILITY 1/4 MILE.

CHART NOTE: VDP NA WHEN USING FRESNO YOSEMITE INTL ALTIMETER SETTING.

CITY AND STATE

MADERA, CA

ELEVATION: 255

TDZE: 253

AIRPORT NAME:

MADERA MUNI

 FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 12, AMDT 1

21 JULY 2016

SUP:

AMDT:

DATED:

 QUALITY  
18  
CHECKED

ORIG-A

11/13/2014

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMAE          |
| RUNWAY                                   | RW12          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W12A          |
| LTP/FTP LATITUDE                         | 365938.3495N  |
| LTP/FTP LONGITUDE                        | 1200708.9730W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00435        |
| FPAP LATITUDE                            | 365835.2400N  |
| FPAP LONGITUDE                           | 1200550.3700W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00034.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1064          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>0D55571E  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00761 |
| FPAP ORTHOMETRIC HEIGHT | +00761 |

CITY AND STATE  
MADERA, CA

ELEVATION: 255 TDZE: 253  
AIRPORT NAME:  
MADERA MUNI

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 12, AMDT 1  
21 JULY 2016

SUP: 18  
AMDT: ORIG-A  
DATED: 11/13/2014

QUALITY  
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|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

ARINC SUMMARY - KMAE

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| BLEAR      | 010        | BLEAR       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
| BLEAR      | 020        | RUGUE       | TF          | FB    | 2.0 | 310.4      |            |       |             |               |                | AA 02000                           |                                       | E A                        |
| BLEAR      | 030        | IDAYI       | TF          | FB    | 1.0 | 031.9      |            |       |             |               |                | AA 02000                           |                                       | EE B                       |
| UYOKA      | 010        | UYOKA       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| UYOKA      | 020        | IDAYI       | TF          | FB    | 1.0 | 212.0      |            |       |             |               |                | AA 02000                           |                                       | EE B                       |
|            | 010        | IDAYI       | IF          | FB    |     |            |            |       |             |               |                | AA 02000                           |                                       | E I                        |
|            | 020        | FOSAB       | TF          | FB    | 1.0 | 121.9      |            |       |             | RW12          |                | AA 01900                           |                                       | E F                        |
|            | 021        | CIVSI       | TF          | FB    | 0.3 | 122.0      |            | 3.00  |             |               |                | AA 01080 GS 01080                  |                                       | E S                        |
|            | 030        | RW12        | TF          | FO    | 0.3 | 122.0      |            | 3.00  |             |               |                | AT 00284                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 122.0      |            |       |             |               |                | AA 00700                           |                                       | M                          |
|            | 050        | KITBY       | DF          | FO    |     |            |            |       | R           |               |                | AA 02000                           |                                       | EY                         |
|            | 060        | KITBY       | HM          | FO    |     | 119.0      |            |       | R           |               |                | AA 02000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| BLEAR      | N364916.76 | W1201048.68 |
| CIVSI      | N370124.58 | W1200921.39 |
| FOSAB      | N370313.94 | W1201137.87 |
| IDAYI      | N370725.82 | W1201652.85 |
| KITBY      | N364614.53 | W1200249.65 |
| RUGUE      | N370228.30 | W1202303.80 |
| UYOKA      | N371337.65 | W1200908.85 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW12   | N365938.35            | W1200708.97            | 00250                  | 34               |

|                                     |                                                                               |                                            |                                                                                                    |                                                         |
|-------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| CITY AND STATE<br><b>MADERA, CA</b> | ELEVATION: <b>255</b> <b>TDZE: 253</b><br>AIRPORT NAME:<br><b>MADERA MUNI</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 12, AMDT 1</b><br><br>21 JULY 2016 | SUP:<br>AMDT: <b>ORIG-A</b><br>DATED: <b>11/13/2014</b> |
|                                     |                                                                               |                                            |                                                                                                    |                                                         |
|                                     |                                                                               |                                            |                                                                                                    |                                                         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------|--------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|--------|-----|---------|--------|-----|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                            |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                   |     |                  |        |     |         |        |     |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | TO                         |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                                           |        | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW30<br><br>CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2000 DIRECT KITBY AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 119.00 INBOUND.<br>CHART FAS OBST: 319 TREE 365848N/1200506W<br>DISTANCE TO THLD FROM 250 HAT: 0.68 NM.<br>CHART VDP AT 0.91 MILES TO RW30*<br>*LNAV ONLY.<br>WAAS CHANNEL # 90209<br>REFERENCE PATH ID: W30A<br>CHART CIRCLING ICON<br>LTP HAE: 45.2 M |     |                  |        |     |         |        |     |
| BEREN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | JENYE (FB)                 |         | 123.20 / 9.57                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        | 2800     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| BLEAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | KITBY (FB)                 |         | 102.28 / 7.09                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        | 2000     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| JENYE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | GEVRY (FB)                 |         | 213.06 / 7.00                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        | 2000     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| KITBY (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | GEVRY (FB)                 |         | 031.94 / 7.00                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        | 2000     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| CZQ VORTAC (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | GEVRY (FB)                 |         | 240.44 / 6.50                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        | 2000     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| GEVRY (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | HATXI (FB)                 |         | 302.13 / 5.93                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        | 1900     |         | ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 119.00 INBOUND.<br>CHART FAS OBST: 319 TREE 365848N/1200506W<br>DISTANCE TO THLD FROM 250 HAT: 0.68 NM.<br>CHART VDP AT 0.91 MILES TO RW30*<br>*LNAV ONLY.<br>WAAS CHANNEL # 90209<br>REFERENCE PATH ID: W30A<br>CHART CIRCLING ICON<br>LTP HAE: 45.2 M                                                                                                                          |     |                  |        |     |         |        |     |
| HATXI (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | KNOSP/1.80 NM TO RW30 (FB) |         | 302.08 / 3.26                                                                                                                                                                                                                                                                                                                                                        |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT GEVRY<br>3. FAC: <u>302.08</u> FAF: <u>HATXI</u> DIST FAF TO MAP: <u>5.06</u> THLD: <u>5.06</u><br>4. MIN. ALT: <u>GEVRY 2000, HATXI 1900, KNOSP/1.80 NM TO RW30 860*</u><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1900</u> GS ALT AT: <u>HATXI 1900</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>34.0</u> 34:1 IS CLEAR<br>8. MSA FROM: <u>RW30 5900</u> |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         | MAG VAR: 13E                                                                                                                                                                                                                                                                                                                                                                                                             |     | EPOCH YEAR: 2020 |        |     |         |        |     |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                                                                           |     | STANDARD         |        |     |         |        |     |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | A                          |         | B                                                                                                                                                                                                                                                                                                                                                                    |     | C                                         |        | D        |         | E                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                  |        |     |         |        |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DH/MDA | VIS                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                                   | DH/MDA | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                   | VIS | HAT/HAA          | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 505    | 7/8                        | 250     | 505                                                                                                                                                                                                                                                                                                                                                                  | 7/8 | 250                                       | 505    | 7/8      | 250     |                                                                                                                                                                                                                                                                                                                                                                                                                          | NA  |                  |        |     |         |        |     |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 505    | 7/8                        | 250     | 505                                                                                                                                                                                                                                                                                                                                                                  | 7/8 | 250                                       | 505    | 7/8      | 250     |                                                                                                                                                                                                                                                                                                                                                                                                                          | NA  |                  |        |     |         |        |     |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 580    | 1                          | 325     | 580                                                                                                                                                                                                                                                                                                                                                                  | 1   | 325                                       | 580    | 1        | 325     |                                                                                                                                                                                                                                                                                                                                                                                                                          | NA  |                  |        |     |         |        |     |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 680    | 1                          | 425     | 720                                                                                                                                                                                                                                                                                                                                                                  | 1   | 465                                       | 720    | 1 1/2    | 465     |                                                                                                                                                                                                                                                                                                                                                                                                                          | NA  |                  |        |     |         |        |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -4C (25F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.<br>CHART NOTE: BARO-VNAV NA WHEN USING FRESNO YOSEMITE INTL ALTIMETER SETTING<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                             |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |        |     |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | ELEVATION: 255 TDZE: 255   |         | FACILITY IDENTIFIER: RNAV                                                                                                                                                                                                                                                                                                                                            |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:    |        |          |         | SUP:                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                  |        |     |         |        |     |
| MADERA, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | AIRPORT NAME: MADERA MUNI  |         |                                                                                                                                                                                                                                                                                                                                                                      |     | RNAV (GPS) RWY 30, AMDT 1<br>21 JULY 2016 |        |          |         | AMDT: ORIG-A                                                                                                                                                                                                                                                                                                                                                                                                             |     |                  |        |     |         |        |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                           |        |          |         | DATED 11/13/2014                                                                                                                                                                                                                                                                                                                                                                                                         |     |                  |        |     |         |        |     |

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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

| FROM                  | TO              | COURSE AND DISTANCE | ALTITUDE |
|-----------------------|-----------------|---------------------|----------|
| KNOSP/1.80 NM TO RW30 | RW30 (MAP) (FO) | 302.08 / 1.80       |          |
| RW30 (MAP)            | 700 MSL         | 302.08              | 700      |
| 700 MSL               | KITBY (FO)      |                     | 2000     |

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FRESNO YOSEMITE INTL ALTIMETER SETTING AND INCREASE ALL DA 64 FEET AND ALL VISIBILITY 1/4 MILE; INCREASE ALL MDA 80 FEET AND ALL VISIBILITY 1/4 MILE.

CHART NOTE: VDP NA WHEN USING FRESNO YOSEMITE INTL ALTIMETER SETTING.

CITY AND STATE  
MADERA, CA

ELEVATION: 255 TDZE: 255  
AIRPORT NAME:  
MADERA MUNI

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 30, AMDT 1  
21 JULY 2016

SUP:  
AMDT: ORIG-A  
DATED: 11/13/2014

QUALITY  
18  
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMAE          |
| RUNWAY                                   | RW30          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30A          |
| LTP/FTP LATITUDE                         | 365859.5715N  |
| LTP/FTP LONGITUDE                        | 1200620.6675W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00451        |
| FPAP LATITUDE                            | 370002.6800N  |
| FPAP LONGITUDE                           | 1200739.2800W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00034.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1064          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

CF41D167

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00777 |
| FPAP ORTHOMETRIC HEIGHT | +00777 |

CITY AND STATE

MADERA, CA

ELEVATION: 255

TDZE: 255

AIRPORT NAME:

MADERA MUNI

 FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 1

21 JULY 2016

SUP:

AMDT:

DATED:

 QUALITY  
18  
CHECKED

ORIG-A

11/13/2014

ARINC SUMMARY - KMAE

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| BEREN      | 010        | BEREN       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
| BEREN      | 020        | JENYE       | TF          | FB    | 2.0 | 123.2      |            |       |             |               |                | AA 02800                           |                                       | E A                        |
| BEREN      | 030        | GEVRY       | TF          | FB    | 1.0 | 213.1      |            |       |             |               |                | AA 02000                           |                                       | EE B                       |
| BLEAR      | 010        | BLEAR       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
| BLEAR      | 020        | KITBY       | TF          | FB    | 2.0 | 102.3      |            |       |             |               |                | AA 02000                           |                                       | E A                        |
| BLEAR      | 030        | GEVRY       | TF          | FB    | 1.0 | 031.9      |            |       |             |               |                | AA 02000                           |                                       | EE B                       |
| CZQ        | 010        | CZQ         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| CZQ        | 020        | GEVRY       | TF          | FB    | 1.0 | 240.4      |            |       |             |               |                | AA 02000                           |                                       | EE B                       |
|            | 010        | GEVRY       | IF          | FB    |     |            |            |       |             |               |                | AA 02000                           |                                       | E I                        |
|            | 020        | HATXI       | TF          | FB    | 1.0 | 302.1      |            |       |             | RW30          |                | AA 01900                           |                                       | E F                        |
|            | 021        | KNOSP       | TF          | FB    | 0.3 | 302.1      |            | 3.00  |             |               |                | AA 00860 GS 00862                  |                                       | E S                        |
|            | 030        | RW30        | TF          | FO    | 0.3 | 302.1      |            | 3.00  |             |               |                | AT 00289                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 302.1      |            |       |             |               |                | AA 00700                           |                                       | M                          |
|            | 050        | KITBY       | DF          | FO    | 1.0 |            |            |       | L           |               |                | AA 02000                           |                                       | EY                         |
|            | 060        | KITBY       | HM          | FO    |     | 119.0      |            |       | R           |               |                | AA 02000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CZQ        | N365303.56 | W1194854.52 |
| BEREN      | N370259.30 | W1195838.91 |
| BLEAR      | N364916.76 | W1201048.68 |
| GEVRY      | N365112.06 | W1195640.01 |
| HATXI      | N365524.47 | W1200153.14 |
| JENYE      | N365604.03 | W1195023.17 |
| KITBY      | N364614.53 | W1200249.65 |
| KNOSP      | N365743.05 | W1200445.43 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW30   | N365859.57            | W1200620.67            | 00255                  | 34               |

|                                     |                                                                               |                                            |                                                                                                    |                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| CITY AND STATE<br><b>MADERA, CA</b> | ELEVATION: <b>255</b> <b>TDZE: 255</b><br>AIRPORT NAME:<br><b>MADERA MUNI</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 30, AMDT 1</b><br><br>21 JULY 2016 | SUP:<br><hr/> AMDT: <b>ORIG-A</b><br><hr/> DATED: <b>11/13/2014</b> |
|-------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State | Airport     | Effective Date | Amdt. No. |
|-------------|-------------|----------------|-----------|
| MADERA, CA  | MADERA MUNI | 21 JULY 2016   | 4         |

**TAKEOFF MINIMUMS:**

RWY 8, 26: NA - ENVIRONMENTAL  
RWY 12, 30: STANDARD

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 12, CLIMBING LEFT TURN HEADING 334 AND FRA R-243 TO BEREN INT/FRA 18.6 DME BEFORE PROCEEDING ON COURSE.  
RWY 30, CLIMBING RIGHT TURN TO INTERCEPT FRA R-243 TO BEREN INT/FRA 18.6 DME BEFORE PROCEEDING ON COURSE.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**CONTROLLING OBSTACLES:**





U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State | Airport     | Effective Date | Amdt. No. |
|-------------|-------------|----------------|-----------|
| MADERA, CA  | MADERA MUNI | 21 JULY 2016   | 4         |

**REMARKS:**

VCOA NOT DEVELOPED PER ATC REQUEST DUE TO LOCAL AIR TRAFFIC.  
NO CONTROLLING OBS IDENTIFIED.

**FLIGHT INSPECTED BY:**

THOMAS E MOLOKIE

FICO

*Digitally signed by*

**ALLAN WILL**

06/07/2016

Jun 10, 2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

KISSY MAXFIELD

AJV-5431

*Digitally signed by*

**ALLAN WILL**

3/5/2016

Jun 10, 2016

**APPROVED BY:**

LONNIE EVERHART

AJV-5430

*Digitally signed by*

**ALLAN WILL**

Jun 10, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, AMGR, FAT APP CON

**CHANGES:**

1. CHANGED R12 FROM, TURN LEFT, CLIMBING HEADING 095 TO, 1500, CONTINUE CLIMB DIRECT CZQ VORTAC, THEN VIA ASSIGNED ROUTE TO, CLIMBING LEFT TURN HEADING 334 AND FRA R-243 TO BEREN INT/FRA 18.6 DME BEFORE PROCEEDING ON COURSE.
2. CHANGED R30 FROM, CLIMBING RIGHT TURN VIA FRA R-243 TO BEREN INT/FRA 18.6 DME THEN VIA ASSIGNED ROUTE TO, CLIMBING RIGHT TURN TO INTERCEPT FRA R-243 TO BEREN INT/FRA 18.6 DME BEFORE PROCEEDING ON COURSE.

**REASONS:**

- 1, 2. NO LONGER USE VIA ASSIGNED ROUTE.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------|---------|-------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------|--------|-----|---------|--|
| <b>ILS - STANDARD</b><br><b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.29</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                          |        |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | TO                                                                |         |                               | COURSE AND DISTANCE       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE |                 | <b>ILS: DA</b><br><b>LOC: 3.36 NM AFTER NEPIC/I-SFO 5.30 DME OR AT I-SFO 1.94 DME FIX</b><br><br><b>CLIMB TO 4000 ON SFO VOR/DME R-275 TO OLYMM INT/SFO 15.37 DME AND HOLD, OR AS DIRECTED BY ATC.</b><br><br><b>ALTERNATE MA: CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC VOR/DME AND HOLD.</b><br><br><b>ADDITIONAL FLIGHT DATA:</b><br>HOLD E, LT, 275.21 INBOUND.<br>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SJC VOR/DME, LT, 286.00 INBOUND.<br>CHART FAS OBST: 203 TREE 373525N/1221919W<br>CHART: 217 T-L TWR 373441N/1221522W<br>CHART VDP AT 3.20 DME*<br>DISTANCE VDP TO THLD 1.26 NM.<br>*LOC ONLY.<br>CHART IN PLANVIEW: SJC VOR/DME.<br>CHART MANDATORY 8000 AT ARCHI.<br>CHART CIRCLING ICON<br>CHART MANDATORY 4000 AT MENLO. |                 |                                          |        |     |         |  |
| ARCHI (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | PONKE (FB)                                                        |         |                               | 237.62 / 6.07             |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | 8000     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| MENLO (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | HEMAN INT (FB)                                                    |         |                               | 333.41 / 4.31             |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | 3100     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| FAITH/SFO 27.72 DME (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | DIVEC/I-SFO 24.86 DME                                             |         |                               | 281.00 / 3.98 (SFO R-101) |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | 7000     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| DIVEC/I-SFO 24.86 DME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | PONKE/I-SFO 21.56 DME                                             |         |                               | 283.81 / 3.30 (I-SFO)     |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | 6000     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| PONKE/I-SFO 21.56 DME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | WETOR/I-SFO 18.25 DME                                             |         |                               | 283.81 / 3.31 (I-SFO)     |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | 5000     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| WETOR/I-SFO 18.25 DME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | ROKME/I-SFO 14.95 DME                                             |         |                               | 283.81 / 3.31 (I-SFO)     |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | 4000     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT DIVEC/I-SFO 24.86 DME<br>3. FAC: <u>283.81</u> FAF: <u>DUYET INT/I-SFO 7.67 DME</u> DIST FAF TO MAP: <u>5.73</u> THLD: <u>5.73</u><br>4. MIN. ALT: <u>DIVEC 7000, PONKE 6000, WETOR 5000, ROKME 4000, HEMAN 3100, DUYET 1800, NEPIC/I-SFO 5.30 DME 1080*</u><br>5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - _____ 100 HAT: <u>952</u> GS ANT: <u>1066</u><br>6. MIN GS INCPT: <u>1800</u> GS ALT AT: <u>DUYET 1800</u> OM: _____ - _____ MM: _____ - _____ IM: _____<br>7. GS ANGLE: <u>2.85</u> TCH: <u>52.6</u><br>8. MSA FROM: <u>SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5100</u> |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 | MAG VAR: 14E EPOCH YEAR: 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                          |        |     |         |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |          | ILS: STANDARD # |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LOC: STANDARD @ |                                          |        |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | A                                                                 |         |                               | B                         |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | C        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | D               |                                          |        | E   |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DH/MDA | VIS                                                               | HAT/HAA | DH/MDA                        | VIS                       | HAT/HAA                                                                                                             | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS      | HAT/HAA         | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VIS             | HAT/HAA                                  | DH/MDA | VIS | HAT/HAA |  |
| S-ILS 28L**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 213    | 2400                                                              | 200     | 213                           | 2400                      | 200                                                                                                                 | 213                                                                                                                                                                                                                                                                                                                                                                  | 2400     | 200             | 213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2400            | 200                                      |        |     |         |  |
| S-ILS 28L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 789    | 2 1/2                                                             | 776     | 789                           | 2 1/2                     | 776                                                                                                                 | 789                                                                                                                                                                                                                                                                                                                                                                  | 2 1/2    | 776             | 789                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 1/2           | 776                                      |        |     |         |  |
| S-LOC 28L**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 460    | 2400                                                              | 447     | 460                           | 2400                      | 447                                                                                                                 | 460                                                                                                                                                                                                                                                                                                                                                                  | 4500     | 447             | 460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4500            | 447                                      |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| S-LOC 28L %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 740    | 2400                                                              | 727     | 740                           | 2400                      | 727                                                                                                                 | 740                                                                                                                                                                                                                                                                                                                                                                  | 1 5/8    | 727             | 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 5/8           | 727                                      |        |     |         |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1080   | 1                                                                 | 1067    | 1080                          | 1 1/2                     | 1067                                                                                                                | 1560                                                                                                                                                                                                                                                                                                                                                                 | 3        | 1547            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA              |                                          |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| NOTES:<br>CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.<br>CHART NOTE: DME REQUIRED.<br>CHART PLANVIEW NOTE: DME OR RADAR OR GPS REQUIRED.<br>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |
| CITY AND STATE<br><br>SAN FRANCISCO, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | ELEVATION: 13 TDZE: 13<br>AIRPORT NAME:<br><br>SAN FRANCISCO INTL |         | FACILITY IDENTIFIER:<br>I-SFO |                           | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)<br><br>21 JULY 2016 |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | SUP: <u>4</u><br>AMDT: <u>CHECKED 25</u> |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | DATED <u>03/05/2015</u>                  |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                   |         |                               |                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                          |        |     |         |  |

## US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## TERMINAL ROUTES, (CONT.):

| FROM                              | TO                        | COURSE AND DISTANCE   | ALTITUDE |
|-----------------------------------|---------------------------|-----------------------|----------|
| ROKME/I-SFO 14.95 DME             | HEMAN INT/I-SFO 11.97 DME | 283.81 / 2.97 (I-SFO) | 3100     |
| HEMAN INT/I-SFO 11.97 DME<br>(IF) | DUYET INT/I-SFO 7.67 DME  | 283.81 / 4.30 (I-SFO) | 1800     |

## NOTES, (CONT.):

CHART NOTE: \*\* MISSED APPROACH REQUIRES MINIMUM CLIMB OF 325 FEET PER NM TO 2100.

CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R.

CHART NOTE: CIRCLING RWY 1L, 1R NA AT NIGHT.

**\*\*SA CAT II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED: S-ILS 28L: CAT A, B, C, D,**

RA 100, RVR 1200, HAT 100, DA 113 MSL.

CHART NOTE SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 28R.

CHART PROFILE NOTE: USE I-SFO DME WHEN ON THE LOCALIZER COURSE.

CHART NOTE SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.

CHART NOTE: % FOR INOPERATIVE MALSR INCREASE S-LOC CAT C AND D VISIBILITY TO 2 MILE.

SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART PLANVIEW NOTE ADJACENT TO ARCHI: GPS REQUIRED.

CHART PLANVIEW NOTE ADJACENT TO MENLO: GPS REQUIRED.

CHART SPEED ICON IN PLANVIEW AT ARCHI: MAX 230 KIAS.

CHART SPEED ICON IN PLANVIEW AT MENLO: MAX 230 KIAS.

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY  
IDENTIFIER:

I-SFO

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)

21 JULY 2016

SUP: 4

AMDT CHECKED 25

DATED: 03/05/2015

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSFO

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARCHI      | 010        | ARCHI       | IF          | FB    |     |            |            |       |             |               |                | AT 08000                           | AB 230                                | E A                        |
| ARCHI      | 020        | PONKE       | TF          | FB    |     |            |            |       |             |               |                | AA 08000                           |                                       | E                          |
| ARCHI      | 030        | WETOR       | TF          | FB    |     |            |            |       |             |               |                | AA 05000                           |                                       | E                          |
| ARCHI      | 040        | ROKME       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E                          |
| ARCHI      | 050        | HEMAN       | CF          | FB    |     | 283.8      | ISFO       |       |             |               |                | AA 03100                           |                                       | EE B                       |
| FAITH      | 010        | FAITH       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| FAITH      | 020        | DIVEC       | TF          | FB    |     |            |            |       |             |               |                | AA 07000                           |                                       | E                          |
| FAITH      | 030        | PONKE       | TF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E                          |
| FAITH      | 040        | WETOR       | TF          | FB    |     |            |            |       |             |               |                | AA 05000                           |                                       | E                          |
| FAITH      | 050        | ROKME       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E                          |
| FAITH      | 060        | HEMAN       | CF          | FB    |     | 283.8      | ISFO       |       |             |               |                | AA 03100                           |                                       | EE B                       |
| MENLO      | 010        | MENLO       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           | AB 230                                | E A                        |
| MENLO      | 020        | MENLO       | FC          | FB    |     | 333.4      | NLC        |       |             |               |                | AA 03100                           |                                       | E                          |
| MENLO      | 030        | HEMAN       | CF          | FB    |     | 333.4      | ISFO       |       |             |               |                | AA 03100                           |                                       | EE B                       |
|            | 010        | HEMAN       | IF          | FB    |     |            | ISFO       |       |             |               |                | AA 03100 GI 01800                  |                                       | E I                        |
|            | 020        | DUYET       | CF          | FB    |     | 284.0      | ISFO       | 2.85  |             | SFO           |                | GI 01800 GS 01800                  |                                       | E F                        |
|            | 030        | RW28L       | CF          | FO    |     | 284.0      | ISFO       | 2.85  |             |               |                | AT 00065                           |                                       | GY M                       |
|            | 040        | OLYMM       | CF          | FO    |     | 275.2      | SFO        |       |             |               |                | AA 04000                           |                                       | EYM                        |
|            | 050        | OLYMM       | HM          | FO    |     | 275.2      |            |       | L           |               |                | AA 04000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| NLC (DME)  | N362038.82 | W1195758.80 |
| SFO        | N373710.14 | W1222226.02 |
| ISFO (DME) | N373739.54 | W1222341.46 |
| ARCHI      | N372926.87 | W1215231.95 |
| DIVEC      | N372558.38 | W1215606.03 |
| DUYET      | N373402.64 | W1221510.54 |
| FAITH      | N372404.38 | W1215142.84 |
| HEMAN      | N373201.86 | W1221024.00 |
| MENLO      | N372749.27 | W1220913.17 |
| OLYMM      | N374257.70 | W1224021.68 |
| PONKE      | N372731.74 | W1215945.79 |
| ROKME      | N373038.13 | W1220705.79 |
| WETOR      | N372904.99 | W1220325.71 |
| ISFO (LOC) | N373737.47 | W1222341.92 |

QUALITY  
15  
CHECKED

|                                            |                                            |                                             |                                                                                                                                 |                          |
|--------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN FRANCISCO, CA</b> | ELEVATION: <b>13</b> TDZE: <b>13</b>       | FACILITY<br>IDENTIFIER:<br><br><b>I-SFO</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 28L, AMDT 25A;<br/>ILS RWY 28L (SA CAT II)<br/>21 JULY 2016</b> | SUP:                     |
|                                            | AIRPORT NAME:<br><b>SAN FRANCISCO INTL</b> |                                             |                                                                                                                                 | AMDT: <b>25</b>          |
|                                            |                                            |                                             |                                                                                                                                 | DATED: <b>03/05/2015</b> |

## FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW28L  | N373643.55            | W1222133.35            | 00013                  | 52.6             |

QUALITY  
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CHECKED

|        |                   |
|--------|-------------------|
| SUP:   |                   |
| AMDT:  | <b>25</b>         |
| DATED: | <b>03/05/2015</b> |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - KSFO

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARCHI      | 010        | ARCHI       | IF          | FB    |     |            |            |       |             |               |                | AT 08000                           | AB 230                                | E A                        |
| ARCHI      | 020        | PONKE       | TF          | FB    |     |            |            |       |             |               |                | AA 08000                           |                                       | E                          |
| ARCHI      | 030        | WETOR       | TF          | FB    |     |            |            |       |             |               |                | AA 05000                           |                                       | E                          |
| ARCHI      | 040        | ROKME       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E                          |
| ARCHI      | 050        | HEMAN       | CF          | FB    |     | 283.8      | ISFO       |       |             |               |                | AA 03100                           |                                       | EE B                       |
| FAITH      | 010        | FAITH       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| FAITH      | 020        | DIVEC       | TF          | FB    |     |            |            |       |             |               |                | AA 07000                           |                                       | E                          |
| FAITH      | 030        | PONKE       | TF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E                          |
| FAITH      | 040        | WETOR       | TF          | FB    |     |            |            |       |             |               |                | AA 05000                           |                                       | E                          |
| FAITH      | 050        | ROKME       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E                          |
| FAITH      | 060        | HEMAN       | CF          | FB    |     | 283.8      | ISFO       |       |             |               |                | AA 03100                           |                                       | EE B                       |
| MENLO      | 010        | MENLO       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           | AB 230                                | E A                        |
| MENLO      | 020        | MENLO       | FC          | FB    |     | 333.4      | NLC        |       |             |               |                | AA 03100                           |                                       | E                          |
| MENLO      | 030        | HEMAN       | CF          | FB    |     | 333.4      | ISFO       |       |             |               |                | AA 03100                           |                                       | EE B                       |
|            | 010        | HEMAN       | IF          | FB    |     |            | ISFO       |       |             |               |                | AA 03100                           |                                       | E I                        |
|            | 020        | DUYET       | CF          | FB    |     | 284.0      | ISFO       |       |             | SFO           |                | AA 01800                           |                                       | E F                        |
|            | 021        | NEPIC       | CF          | FB    |     | 284.0      | ISFO       | 2.86  |             |               |                | AA 01080                           |                                       | E S                        |
|            | 030        | RW28L       | CF          | FO    |     | 284.0      | ISFO       | 2.86  |             |               |                | AT 00065                           |                                       | GY M                       |
|            | 040        | OLYMM       | CF          | FO    |     | 275.2      | SFO        |       |             |               |                | AA 04000                           |                                       | EYM                        |
|            | 050        | OLYMM       | HM          | FO    |     | 275.2      |            |       | L           |               |                | AA 04000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| NLC (DME)  | N362038.82 | W1195758.80 |
| SFO        | N373710.14 | W1222226.02 |
| ISFO (DME) | N373739.54 | W1222341.46 |
| ARCHI      | N372926.87 | W1215231.95 |
| DIVEC      | N372558.38 | W1215606.03 |
| DUYET      | N373402.64 | W1221510.54 |
| FAITH      | N372404.38 | W1215142.84 |
| HEMAN      | N373201.86 | W1221024.00 |
| MENLO      | N372749.27 | W1220913.17 |
| NEPIC      | N373509.22 | W1221748.78 |
| OLYMM      | N374257.70 | W1224021.68 |
| PONKE      | N372731.74 | W1215945.79 |
| ROKME      | N373038.13 | W1220705.79 |

QUALITY  
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|                                            |                                                                    |                                     |                                             |                                                                                                                                      |                          |
|--------------------------------------------|--------------------------------------------------------------------|-------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN FRANCISCO, CA</b> | ELEVATION: <b>13</b><br>AIRPORT NAME:<br><b>SAN FRANCISCO INTL</b> | TDZE: <b>13</b><br><br><b>I-SFO</b> | FACILITY<br>IDENTIFIER:<br><br><b>I-SFO</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 28L, AMDT 25A;</b><br><b>ILS RWY 28L (SA CAT II)</b><br>21 JULY 2016 | SUP:                     |
|                                            |                                                                    |                                     |                                             |                                                                                                                                      | AMDT: <b>25</b>          |
|                                            |                                                                    |                                     |                                             |                                                                                                                                      | DATED: <b>03/05/2015</b> |

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |                       |                                                      |                                                   | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |
|---------------------------------------------------------------------|-----------------------|------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| LOC STANDARD INSTRUMENT APPROACH PROCEDURE                          |                       |                                                      |                                                   |                                                                                                                                                                                                                                                                                                                                                                      |  |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25                 |                       |                                                      |                                                   |                                                                                                                                                                                                                                                                                                                                                                      |  |
| WETOR                                                               |                       | N372904.99                                           | W1220325.71                                       |                                                                                                                                                                                                                                                                                                                                                                      |  |
| ISFO (LOC)                                                          |                       | N373737.47                                           | W1222341.92                                       |                                                                                                                                                                                                                                                                                                                                                                      |  |
| RUNWAYS                                                             |                       |                                                      |                                                   |                                                                                                                                                                                                                                                                                                                                                                      |  |
| RUNWAY                                                              | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                               | THRESHOLD<br>ELEVATION                            | PROCEDURE<br>TCH                                                                                                                                                                                                                                                                                                                                                     |  |
| RW28L                                                               | N373643.55            | W1222133.35                                          | 00013                                             | 52.6                                                                                                                                                                                                                                                                                                                                                                 |  |
|                                                                     |                       |                                                      |                                                   |                                                                                                                                                                                                                                                                                                                                                                      |  |
| CITY AND STATE<br>SAN FRANCISCO, CA                                 |                       | ELEVATION: 13<br>AIRPORT NAME:<br>SAN FRANCISCO INTL | TDZE: 13<br><br>FACILITY IDENTIFIER:<br><br>I-SFO | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br>ILS OR LOC RWY 28L, AMDT 25A;<br>ILS RWY 28L (SA CAT II)<br>21 JULY 2016                                                                                                                                                                                                                                               |  |
|                                                                     |                       |                                                      |                                                   | SUP:<br>AMDT: 25<br>DATED: 03/05/2015                                                                                                                                                                                                                                                                                                                                |  |

QUALITY  
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|----------------|-------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|--------|-----|---------|
| <b>ILS - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.29</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                           |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | TO                        |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |       |                      |                | ALTITUDE                                                                                                          |                 | <b>ILS: DA</b><br>LOC: 5.44 NM AFTER AXMUL INT/I-GWQ 7.43 DME OR AT I-GWQ 1.99 DME FIX<br><br>CLIMB TO 3000 ON SFO VOR/DME R-281 TO VIKYU INT/SFO 12.00 DME AND HOLD, OR AS DIRECTED BY ATC.<br><br><b>ALTERNATE MA:</b> CLIMB TO 2600 ON HEADING 281 THEN CLIMBING RIGHT TURN TO 4000 VIA RADAR VECTORS TO SAU VORTAC AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD E, RT, 281.08 INBOUND.<br>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE SAU VORTAC, RT, 215.21 INBOUND.<br>FAS OBST: 224 AAO 373413N/1221613W<br>CHART VDP AT 3.24 DME*<br>DISTANCE VDP TO THLD 1.25 NM.<br>*LOC ONLY.<br>CHART IN PLANVIEW: SAU VORTAC.<br>CHART CIRCLING ICON.<br>CHART 317 T-L TWR 373456N/1221506W<br>CHART MANDATORY 4000 AT MENLO.<br>CHART MANDATORY 8000 AT ARCHI. |       |                  |        |     |         |
| ARCHI (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | ZILED (FB)                |         | 260.22 / 3.96                                                                                                                                                                                                                                                                                                                                                        |       |                      |                | 6000                                                                                                              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| ZILED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | GIRRR (FB)                |         | 260.16 / 3.30                                                                                                                                                                                                                                                                                                                                                        |       |                      |                | 5000                                                                                                              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| GIRRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | DUMBA (FB)                |         | 260.10 / 3.30                                                                                                                                                                                                                                                                                                                                                        |       |                      |                | 4000                                                                                                              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| DUMBA INT/I-GWQ 16.13 DME (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | CEPIN INT/I-GWQ 11.99 DME |         | 283.82 / 4.15 (I-GWQ)                                                                                                                                                                                                                                                                                                                                                |       |                      |                | 3000                                                                                                              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| MENLO INT (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | CEPIN INT/I-GWQ 11.99 DME |         | 331.00 / 4.43 (OAK R-151)                                                                                                                                                                                                                                                                                                                                            |       |                      |                | 3000                                                                                                              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| CEPIN INT/I-GWQ 11.99 DME (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | AXMUL INT/I-GWQ 7.43 DME  |         | 283.82 / 4.55 (I-GWQ)                                                                                                                                                                                                                                                                                                                                                |       |                      |                | 1800                                                                                                              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT CEPIN<br>3. FAC: 283.82 FAF: AXMUL INT/I-GWQ 7.43 DME DIST FAF TO MAP: 5.44 THLD: 5.44<br>4. MIN. ALT: CEPIN 3000, AXMUL 1800<br>5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: 1815 100 HAT: 861 GS ANT: 1065<br>6. MIN GS INCPT: 1800 GS ALT AT: AXMUL 1800 OM: _____ - _____ MM: _____ - _____ IM: 112<br>7. GS ANGLE: 3.00 TCH: 54.8<br>8. MSA FROM: SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5100 |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 | MAG VAR: 14E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | EPOCH YEAR: 2015 |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      | ALTERNATE: N A |                                                                                                                   | ILS: STANDARD # |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | LOC: STANDARD @  |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | A                         |         | B                                                                                                                                                                                                                                                                                                                                                                    |       | C                    |                | D                                                                                                                 |                 | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DH/MDA | VIS                       | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA              | DH/MDA         | VIS                                                                                                               | HAT/HAA         | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VIS   | HAT/HAA          | DH/MDA | VIS | HAT/HAA |
| S-ILS 28R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 213    | 1800                      | 200     | 213                                                                                                                                                                                                                                                                                                                                                                  | 1800  | 200                  | 213            | 1800                                                                                                              | 200             | 213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1800  | 200              |        |     |         |
| S-LOC 28R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 480    | 2400                      | 467     | 480                                                                                                                                                                                                                                                                                                                                                                  | 2400  | 467                  | 480            | 5000                                                                                                              | 467             | 480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5000  | 467              |        |     |         |
| SIDESTEP 28L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 480    | 5500                      | 467     | 480                                                                                                                                                                                                                                                                                                                                                                  | 5500  | 467                  | 480            | 1 1/2                                                                                                             | 467             | 480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 1/2 | 467              |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 640    | 1                         | 627     | 960                                                                                                                                                                                                                                                                                                                                                                  | 1 1/4 | 947                  | 1560           | 3                                                                                                                 | 1547            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA    |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| NOTES:<br><b>CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED;</b> S-ILS 28R: CAT A, B, C, D, RA 113, RVR 1200, HAT 100, DA 113 MSL.<br><b>CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED;</b> S-ILS 28R: CAT III CAT A, B, C, D, RVR 600.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                  |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                  |        |     |         |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | ELEVATION: 13             |         | TDZE: 28R 13                                                                                                                                                                                                                                                                                                                                                         |       | FACILITY IDENTIFIER: |                | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                            |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | SUP:             |        |     |         |
| SAN FRANCISCO, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | AIRPORT NAME:             |         | TDZE: 28L 13                                                                                                                                                                                                                                                                                                                                                         |       | I-GWQ                |                | ILS OR LOC RWY 28R, AMDT 13A; ILS RWY 28R (SA CAT I), ILS RWY 28R (CAT II), ILS RWY 28R (CAT III)<br>21 JULY 2016 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | AMDT: 13         |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | SAN FRANCISCO INTL        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |                |                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | DATED 03/05/2015 |        |     |         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |              |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                     |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |              | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                                     |                   |
| ILS - STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |              |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                     |                   |
| INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                     |                   |
| <p>NOTES, (CONT.):</p> <p><u>SA CATEGORY I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 28R: CAT A, B, C, D, RA</u></p> <p>163, RVR 1400, HAT 150, DA 163 MSL</p> <p>SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.</p> <p>CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R.</p> <p>CHART NOTE: CIRCLING RWY 1L, 1R NA AT NIGHT.</p> <p>CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP R28L.</p> <p>CHART PLANVIEW NOTE: GPS OR RADAR REQUIRED.</p> <p>CHART PLANVIEW NOTE ADJACENT TO ARCHI IAF: GPS REQUIRED.</p> <p>CHART PROFILE NOTE: USE I-GWQ DME WHEN ON THE LOCALIZER COURSE.</p> <p>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).</p> <p>CHART NOTE: FOR INOPERATIVE ALSF INCREASE S-LOC 28R CAT C AND D VISIBILITY TO 1 3/8 MILE.</p> <p>CHART NOTE: MISSED APPROACH REQUIRES MINIMUM CLIMB OF 350 FEET PER NM TO 1900; IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS OR LOC RWY 28L.</p> <p>CHART NOTE (ONLY ON ILS OR LOC RWY 28R): SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 28L.</p> <p>CHART NOTE (ONLY ON ILS OR LOC RWY 28R): SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE: MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.</p> <p>CHART SPEED ICON IN PLANVIEW AT MENLO: MAX 230 KIAS.</p> <p>CHART SPEED ICON IN PLANVIEW AT ARCHI: MAX 230 KIAS.</p> |                    |              |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                     |                   |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ELEVATION: 13      | TDZE: 28R 13 | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                  | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:                                                             | SUP: 4            |
| SAN FRANCISCO, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIRPORT NAME:      | TDZE: 28L 13 | I-GWQ                                                                                                                                                                                                                                                                                                                                                                 | ILS OR LOC RWY 28R, AMDT 13A; ILS RWY 28R (SA CAT I) , ILS RWY 28R (CAT II) , ILS RWY 28R (CAT III) | AMDT: 13          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SAN FRANCISCO INTL |              |                                                                                                                                                                                                                                                                                                                                                                       | 21 JULY 2016                                                                                        | DATED: 03/05/2015 |

|                                                                                                                                                                                               |                       |             |                        |       |     |                        |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|------------------------|-------|-----|------------------------|------------|-------|------------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>ILS STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29</b> |                       |             |                        |       |     |                        |            |       |                  |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KSFO<br><br>ROUTES                                                                                                                                                            |                       |             |                        |       |     |                        |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                    | WPT<br>SEQ            | WPT<br>NAME | LEG<br>TYPE            | FB/FO | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE | TURN<br>DIR      | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| ARCHI                                                                                                                                                                                         | 010                   | ARCHI       | IF                     | FB    |     |                        |            |       |                  |               |                | AT 08000                                                                                                                                                                                                                                                                                                                                                             | AB 230                                | E A                        |
| ARCHI                                                                                                                                                                                         | 020                   | ZILED       | TF                     | FB    |     |                        |            |       |                  |               |                | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| ARCHI                                                                                                                                                                                         | 030                   | GIRRR       | TF                     | FB    |     |                        |            |       |                  |               |                | AA 05000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| ARCHI                                                                                                                                                                                         | 040                   | DUMBA       | TF                     | FB    |     |                        |            |       |                  |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| ARCHI                                                                                                                                                                                         | 050                   | CEPIN       | CF                     | FB    |     | 283.8                  | IGWQ       |       |                  |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| DUMBA                                                                                                                                                                                         | 010                   | DUMBA       | IF                     | FB    |     |                        |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| DUMBA                                                                                                                                                                                         | 020                   | CEPIN       | CF                     | FB    |     | 283.8                  | IGWQ       |       |                  |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| MENLO                                                                                                                                                                                         | 010                   | MENLO       | IF                     | FB    |     |                        |            |       |                  |               |                | AT 04000                                                                                                                                                                                                                                                                                                                                                             | AB 230                                | E A                        |
| MENLO                                                                                                                                                                                         | 020                   | MENLO       | FC                     | FB    |     | 331.0                  | OAK        |       |                  |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| MENLO                                                                                                                                                                                         | 030                   | CEPIN       | CF                     | FB    |     | 331.0                  | IGWQ       |       |                  |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                                                                                                                                               | 010                   | CEPIN       | IF                     | FB    |     |                        | IGWQ       |       |                  |               |                | AA 03000 GI 01800                                                                                                                                                                                                                                                                                                                                                    |                                       | E I                        |
|                                                                                                                                                                                               | 020                   | AXMUL       | CF                     | FB    |     | 284.0                  | IGWQ       | 3.00  |                  | SFO           |                | GI 01800 GS 01800                                                                                                                                                                                                                                                                                                                                                    |                                       | E F                        |
|                                                                                                                                                                                               | 030                   | RW28R       | CF                     | FO    |     | 284.0                  | IGWQ       | 3.00  |                  |               |                | AT 00068                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                               | 040                   | VIKYU       | CF                     | FO    |     | 281.1                  | SFO        |       |                  |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EYM                        |
|                                                                                                                                                                                               | 050                   | VIKYU       | HM                     | FO    |     | 281.1                  |            |       | R                |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                                                                                                                                                        |                       |             |                        |       |     |                        |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                    |                       |             | LATITUDE               |       |     | LONGITUDE              |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| OAK                                                                                                                                                                                           |                       |             | N374333.32             |       |     | W1221324.91            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| SFO                                                                                                                                                                                           |                       |             | N373710.14             |       |     | W1222226.02            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| IGWQ (DME)                                                                                                                                                                                    |                       |             | N373748.20             |       |     | W1222340.61            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARCHI                                                                                                                                                                                         |                       |             | N372926.87             |       |     | W1215231.95            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| AXMUL                                                                                                                                                                                         |                       |             | N373417.45             |       |     | W1221525.91            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CEPIN                                                                                                                                                                                         |                       |             | N373209.43             |       |     | W1221022.35            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| DUMBA                                                                                                                                                                                         |                       |             | N373012.66             |       |     | W1220546.13            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| GIRRR                                                                                                                                                                                         |                       |             | N372958.56             |       |     | W1220138.05            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| MENLO                                                                                                                                                                                         |                       |             | N372749.27             |       |     | W1220913.17            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| VIKYU                                                                                                                                                                                         |                       |             | N374248.64             |       |     | W1223546.34            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ZILED                                                                                                                                                                                         |                       |             | N372944.25             |       |     | W1215729.56            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| IGWQ (LOC)                                                                                                                                                                                    |                       |             | N373746.36             |       |     | W1222343.12            |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                       |                       |             |                        |       |     |                        |            |       |                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                        | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |       |     | THRESHOLD<br>ELEVATION |            |       | PROCEDURE<br>TCH |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
28  
CHECKED

|                                            |                                            |                     |                                             |                                                                                                                                                                               |                          |
|--------------------------------------------|--------------------------------------------|---------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN FRANCISCO, CA</b> | ELEVATION: <b>13</b>                       | TDZE: <b>28R 13</b> | FACILITY<br>IDENTIFIER:<br><br><b>I-GWQ</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 28R, AMDT 13A; ILS RWY 28R</b><br><b>(SA CAT I), ILS RWY 28R (CAT II), ILS RWY 28R (CAT III) 21 JULY 2016</b> | SUP:                     |
|                                            | AIRPORT NAME:<br><b>SAN FRANCISCO INTL</b> |                     |                                             |                                                                                                                                                                               | AMDT: <b>13</b>          |
|                                            |                                            |                     |                                             |                                                                                                                                                                               | DATED: <b>03/05/2015</b> |

|                                                                                                                             |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                                                         |  |                                                                                                                          |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |
| ILS STANDARD INSTRUMENT APPROACH PROCEDURE                                                                                  |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29                                                                         |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
| RW28R                      N373650.11                      W1222129.01                      00013                      54.8 |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
| <div>QUALITY<br/>28<br/>CHECKED</div>                                                                                       |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                             |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                             |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                             |  |                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
| CITY AND STATE<br>SAN FRANCISCO, CA                                                                                         |  | ELEVATION: 13                      TDZE: 28R 13<br>AIRPORT NAME:                      TDZE: 28L 13<br>SAN FRANCISCO INTL |  | FACILITY IDENTIFIER:<br><br>I-GWQ                                                                                                                                                                                                                                                                                                                                    |  |
|                                                                                                                             |  |                                                                                                                          |  | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br>ILS OR LOC RWY 28R, AMDT 13A; ILS RWY 28R<br>(SA CAT I), ILS RWY 28R (CAT II), ILS RWY 28R (CAT III) 21 JULY 2016                                                                                                                                                                                                      |  |
|                                                                                                                             |  |                                                                                                                          |  | SUP:<br>AMDT: 13<br>DATED: 03/05/2015                                                                                                                                                                                                                                                                                                                                |  |

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                   |            |            |       |             |                                          |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                                                                 |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |     |            |             |            |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |            |            |             |        |                       |                        |                        |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KSFO</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>ARCHI</td><td>010</td><td>ARCHI</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AT 08000</td><td>AB 230</td><td>E A</td></tr> <tr><td>ARCHI</td><td>020</td><td>ZILED</td><td>TF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 06000</td><td></td><td>E</td></tr> <tr><td>ARCHI</td><td>030</td><td>GIRRR</td><td>TF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 05000</td><td></td><td>E</td></tr> <tr><td>ARCHI</td><td>040</td><td>DUMBA</td><td>TF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>E</td></tr> <tr><td>ARCHI</td><td>050</td><td>CEPIN</td><td>CF</td><td>FB</td><td></td><td>283.8</td><td>IGWQ</td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td>DUMBA</td><td>010</td><td>DUMBA</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>DUMBA</td><td>020</td><td>CEPIN</td><td>CF</td><td>FB</td><td></td><td>283.8</td><td>IGWQ</td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td>MENLO</td><td>010</td><td>MENLO</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AT 04000</td><td>AB 230</td><td>E A</td></tr> <tr><td>MENLO</td><td>020</td><td>MENLO</td><td>FC</td><td>FB</td><td></td><td>331.0</td><td>OAK</td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>E</td></tr> <tr><td>MENLO</td><td>030</td><td>CEPIN</td><td>CF</td><td>FB</td><td></td><td>331.0</td><td>IGWQ</td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>CEPIN</td><td>IF</td><td>FB</td><td></td><td></td><td>IGWQ</td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>AXMUL</td><td>CF</td><td>FB</td><td></td><td>284.0</td><td>IGWQ</td><td></td><td></td><td>SFO</td><td></td><td>AA 01800</td><td></td><td>E F</td></tr> <tr><td></td><td>030</td><td>RW28R</td><td>CF</td><td>FO</td><td></td><td>284.0</td><td>IGWQ</td><td>3.01</td><td></td><td></td><td></td><td>AT 00068</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td>VIKYU</td><td>CF</td><td>FO</td><td></td><td>281.1</td><td>SFO</td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EYM</td></tr> <tr><td></td><td>050</td><td>VIKYU</td><td>HM</td><td>FO</td><td></td><td>281.1</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 03000</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-top: 10px;">POINTS</div> <table style="width:100%; 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                                   | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX                            | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                                                                 |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |  |  | 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                                   |            |            |       |             |                                          |                | AT 08000                                                                                                                                                                                                                                                                                                                                                             | AB 230                                | E A                        |                                                                 |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |  |  | 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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| MENLO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| SFO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| IGWQ (DME)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| ARCHI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| AXMUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| CEPIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| DUMBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| GIRRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| MENLO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |  |  |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |       |     |  |  |  |  |          |  |   |       |     |       |    |    |  |       |      |  |  |  |  |          |  |      |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |       |    |    |  |       |     |  |  |  |  |          |  |     |  |     |       |    |    |  |       |  |  |   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| VIKYU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| IGWQ (LOC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CITY AND STATE<br><b>SAN FRANCISCO, CA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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13</b><br><b>SAN FRANCISCO INTL</b> |            |            |       |             | FACILITY IDENTIFIER:<br><br><b>I-GWQ</b> |                | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 28R, AMDT 13A; ILS RWY 28R</b><br><b>(SA CAT I), ILS RWY 28R (CAT II), ILS RWY 28R (CAT III)    21 JULY 2016</b>                                                                                                                                                                                     |                                       |                            | SUP:<br><hr/> AMDT: <b>13</b><br><hr/> DATED: <b>03/05/2015</b> |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |          |        |     |       |     |       |    |    |  |  |  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| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25</b>                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |
| <div> <div>RW28R</div> <div>N373650.11</div> <div>W1222129.01</div> <div>00013</div> <div>54.8</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                                                                                                                                                                                                                                                                                                                                                      |  |
| <div> <div> <div>CITY AND STATE</div> <div>SAN FRANCISCO, CA</div> </div> <div> <div>ELEVATION: 13</div> <div>AIRPORT NAME:</div> <div>SAN FRANCISCO INTL</div> </div> <div> <div>TDZE: 28R 13</div> <div>TDZE: 28L 13</div> </div> <div> <div>FACILITY IDENTIFIER:</div> <div>I-GWQ</div> </div> <div> <div>PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:</div> <div>ILS OR LOC RWY 28R, AMDT 13A; ILS RWY 28R (SA CAT I), ILS RWY 28R (CAT II), ILS RWY 28R (CAT III) 21 JULY 2016</div> </div> <div> <div>SUP:</div> <div>AMDT: 13</div> <div>DATED: 03/05/2015</div> </div> </div> |  |  |  |                                                                                                                                                                                                                                                                                                                                                                      |  |



|                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|----------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|---------------------------------------|--------|-----|---------|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                     |        | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  | MISSED APPROACH |       |                                       |        |     |         |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                   |        | TO                                                                          |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                       | ALTITUDE |       | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW28L                                                                                                                                                                                                                                                                                                          |                 |       |                                       |        |     |         |  |  |
| ARCHI (IAF)                                                                                                                                                                                                                                                                                                                            |        | PONKE (FB)                                                                  |         | 237.62 / 6.07                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 6000     |       | CLIMB TO 4000 DIRECT OLYMM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.                                                                                                                                                                                                                                                                             |                 |       |                                       |        |     |         |  |  |
| FAITH (IAF)                                                                                                                                                                                                                                                                                                                            |        | DIVEC (FB)                                                                  |         | 284.53 / 3.98                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 7000     |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| MENLO (IAF)                                                                                                                                                                                                                                                                                                                            |        | HEMAN (FB)                                                                  |         | 333.41 / 4.31                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 3100     |       | ADDITIONAL FLIGHT DATA:<br>HOLD E, LT, 278.21 INBOUND.<br>FAS OBST: 203 TREE 373525N/1221919W<br>CHART 317 MSL TOWER 373456N/1221506W<br>DISTANCE TO THLD FROM 200 HAT: 0.49 NM.<br>WAAS CHANNEL # 53415<br>REFERENCE PATH ID: W28B<br>CHART CIRCLING ICON<br>CHART MANDATORY 8000 AT ARCHI<br>CHART MANDATORY 4000 AT MENLO<br>LTP HAE: -28.8 M |                 |       |                                       |        |     |         |  |  |
| DIVEC                                                                                                                                                                                                                                                                                                                                  |        | PONKE (FB)                                                                  |         | 284.07 / 3.30                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 6000     |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| PONKE                                                                                                                                                                                                                                                                                                                                  |        | WETOR (FB)                                                                  |         | 284.03 / 3.31                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 5000     |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| WETOR                                                                                                                                                                                                                                                                                                                                  |        | ROKME (FB)                                                                  |         | 283.99 / 3.31                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 4000     |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| ROKME                                                                                                                                                                                                                                                                                                                                  |        | HEMAN (FB)                                                                  |         | 283.96 / 2.97                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                       | 3100     |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                     |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                   |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 2. PROFILE STARTS AT DIVEC                                                                                                                                                                                                                                                                                                             |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 3. FAC: 283.88 FAF: DUYET DIST FAF TO MAP: 5.73 THLD: 5.73                                                                                                                                                                                                                                                                             |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 4. MIN. ALT: DIVEC 7000, PONKE 6000, WETOR 5000, ROKME 4000, HEMAN 3100, DUYET 1800, NEPIC/3.36 NM TO RW28L 1080*                                                                                                                                                                                                                      |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                         |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 6. MIN GS INCPT: 1800 GS ALT AT: DUYET 1800 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 7. GS ANGLE: 2.85 TCH: 52.6 34:1 IS CLEAR                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| 8. MSA FROM: RW28L 5100                                                                                                                                                                                                                                                                                                                |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| MAG VAR: 14E EPOCH YEAR: 2015                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                               |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  | ALTERNATE: N A  |       | @                                     |        |     |         |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                        |        | A                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      | B     |                                                                                       |          | C     |                                                                                                                                                                                                                                                                                                                                                  |                 | D     |                                       |        | E   |         |  |  |
|                                                                                                                                                                                                                                                                                                                                        | DH/MDA | VIS                                                                         | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA                                                                               | DH/MDA   | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                          | DH/MDA          | VIS   | HAT/HAA                               | DH/MDA | VIS | HAT/HAA |  |  |
| LPV DA #                                                                                                                                                                                                                                                                                                                               | 213    | 2400                                                                        | 200     | 213                                                                                                                                                                                                                                                                                                                                                                  | 2400  | 200                                                                                   | 213      | 2400  | 200                                                                                                                                                                                                                                                                                                                                              | 213             | 2400  | 200                                   |        |     |         |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                 | 769    | 2 1/2                                                                       | 756     | 769                                                                                                                                                                                                                                                                                                                                                                  | 2 1/2 | 756                                                                                   | 769      | 2 1/2 | 756                                                                                                                                                                                                                                                                                                                                              | 769             | 2 1/2 | 756                                   |        |     |         |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                           | 754    | 2 1/2                                                                       | 741     | 754                                                                                                                                                                                                                                                                                                                                                                  | 2 1/2 | 741                                                                                   | 754      | 2 1/2 | 741                                                                                                                                                                                                                                                                                                                                              | 754             | 2 1/2 | 741                                   |        |     |         |  |  |
|                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                               | 1020   | 4000                                                                        | 1007    | 1020                                                                                                                                                                                                                                                                                                                                                                 | 5500  | 1007                                                                                  | 1020     | 2 1/2 | 1007                                                                                                                                                                                                                                                                                                                                             | 1020            | 2 1/2 | 1007                                  |        |     |         |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                               | 1020   | 1 1/4                                                                       | 1007    | 1020                                                                                                                                                                                                                                                                                                                                                                 | 1 1/2 | 1007                                                                                  | 1560     | 3     | 1547                                                                                                                                                                                                                                                                                                                                             |                 | NA    |                                       |        |     |         |  |  |
|                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 3C (38F) OR ABOVE 54C (130F). @ CAT A, B 1100-2, CAT C 1600-3, CAT D 1100-2 1/2<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>*LNAV ONLY<br>(CONTINUED ON PAGE 2) |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                       |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       |                                       |        |     |         |  |  |
| CITY AND STATE<br>SAN FRANCISCO, CA                                                                                                                                                                                                                                                                                                    |        | ELEVATION: 13 TDZE: 13<br>AIRPORT NAME:<br>SAN FRANCISCO INTL               |         | FACILITY<br>IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                      |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 28L, AMDT 5A<br>21 JULY 2016 |          |       |                                                                                                                                                                                                                                                                                                                                                  |                 |       | SUP: 4<br>AMDT: 5<br>DATED 03/05/2015 |        |     |         |  |  |

|                                                                                  |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
|----------------------------------------------------------------------------------|--|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                |  |                             |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                        |
| RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33       |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| TERMINAL ROUTES, (CONT.):                                                        |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| FROM                                                                             |  | TO                          |          | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  | ALTITUDE                               |
| HEMAN (IF)                                                                       |  | DUYET (FB)                  |          | 283.92 / 4.30                                                                                                                                                                                                                                                                                                                                                        | 1800                                   |
| DUYET (FAF)                                                                      |  | NEPIC/3.36 NM TO RW28L (FB) |          | 283.88 / 2.37                                                                                                                                                                                                                                                                                                                                                        |                                        |
| NEPIC/3.36 NM TO RW28L                                                           |  | RW28L (MAP) (FO)            |          | 283.88 / 3.36                                                                                                                                                                                                                                                                                                                                                        |                                        |
| RW28L (MAP)                                                                      |  | 213 MSL                     |          | 283.88                                                                                                                                                                                                                                                                                                                                                               |                                        |
| 213 MSL                                                                          |  | OLYMM (FO)                  |          |                                                                                                                                                                                                                                                                                                                                                                      | 4000                                   |
| NOTES, (CONT.):                                                                  |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART NOTE: # MISSED APPROACH REQUIRES MINIMUM CLIMB OF 305 FEET PER NM TO 1600. |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV ALL CATS VISIBILITY TO 3 MILE.   |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART PLANVIEW NOTE: RADAR REQUIRED.                                             |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART SPEED ICON IN PLANVIEW AT ARCHI: MAX 230 KIAS.                             |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART SPEED ICON IN PLANVIEW AT MENLO: MAX 230 KIAS.                             |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R.                          |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART NOTE: CIRCLING RWY 1L, 1R NA AT NIGHT.                                     |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CITY AND STATE                                                                   |  | ELEVATION: 13               | TDZE: 13 | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                 | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |
| SAN FRANCISCO, CA                                                                |  | AIRPORT NAME:               |          | RNAV                                                                                                                                                                                                                                                                                                                                                                 | RNAV (GPS) RWY 28L, AMDT 5A            |
|                                                                                  |  | SAN FRANCISCO INTL          |          |                                                                                                                                                                                                                                                                                                                                                                      | 21 JULY 2016                           |
|                                                                                  |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      | SUP: 4                                 |
|                                                                                  |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      | AMDT: CHECKED                          |
|                                                                                  |  |                             |          |                                                                                                                                                                                                                                                                                                                                                                      | DATED: 03/05/2015                      |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSFO          |
| RUNWAY                                   | RW28L         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W28B          |
| LTP/FTP LATITUDE                         | 373643.5470N  |
| LTP/FTP LONGITUDE                        | 1222133.3530W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00288        |
| FPAP LATITUDE                            | 373734.6440N  |
| FPAP LONGITUDE                           | 1222335.1795W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00052.6       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 02.85         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |
| <br><u>CRC REMAINDER</u>                 | <br>E3FF0672  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00038 |
| FPAP ORTHOMETRIC HEIGHT | +00038 |

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 28L, AMDT 5A

21 JULY 2016

SUP:

AMDT:

DATED: 03/05/2015

QUALITY  
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**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSFO

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARCHI      | 010        | ARCHI       | IF          | FB    |     |            |            |       |             |               |                | AT 08000                           | AB 230                                | E A                        |
| ARCHI      | 020        | PONKE       | TF          | FB    | 1.0 | 237.6      |            |       |             |               |                | AA 06000                           |                                       | E                          |
| ARCHI      | 030        | WETOR       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 05000                           |                                       | E                          |
| ARCHI      | 040        | ROKME       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 04000                           |                                       | E                          |
| ARCHI      | 050        | HEMAN       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
| FAITH      | 010        | FAITH       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| FAITH      | 020        | DIVEC       | TF          | FB    | 1.0 | 284.5      |            |       |             |               |                | AA 07000                           |                                       | E                          |
| FAITH      | 030        | PONKE       | TF          | FB    | 1.0 | 284.1      |            |       |             |               |                | AA 06000                           |                                       | E                          |
| FAITH      | 040        | WETOR       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 05000                           |                                       | E                          |
| FAITH      | 050        | ROKME       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 04000                           |                                       | E                          |
| FAITH      | 060        | HEMAN       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
| MENLO      | 010        | MENLO       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           | AB 230                                | E A                        |
| MENLO      | 020        | HEMAN       | TF          | FB    | 1.0 | 333.4      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
|            | 010        | HEMAN       | IF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E I                        |
|            | 020        | DUYET       | TF          | FB    | 1.0 | 283.9      |            |       |             | RW28L         |                | AA 01800                           |                                       | E F                        |
|            | 021        | NEPIC       | TF          | FB    | 0.3 | 283.9      |            | 2.85  |             |               |                | AA 01080 GS 01082                  |                                       | E S                        |
|            | 030        | RW28L       | TF          | FO    | 0.3 | 283.9      |            | 2.85  |             |               |                | AT 00065                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 283.9      |            |       |             |               |                | AA 00213                           |                                       | M                          |
|            | 050        | OLYMM       | DF          | FO    |     |            |            |       |             |               |                | AA 04000                           |                                       | EY                         |
|            | 060        | OLYMM       | HM          | FO    |     | 278.2      |            |       | L           |               |                | AA 04000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ARCHI      | N372926.87 | W1215231.95 |
| DIVEC      | N372558.38 | W1215606.03 |
| DUYET      | N373402.64 | W1221510.54 |
| FAITH      | N372404.38 | W1215142.84 |
| HEMAN      | N373201.86 | W1221024.00 |
| MENLO      | N372749.27 | W1220913.17 |
| NEPIC      | N373509.22 | W1221748.78 |
| OLYMM      | N374257.70 | W1224021.68 |
| PONKE      | N372731.74 | W1215945.79 |
| ROKME      | N373038.13 | W1220705.79 |
| WETOR      | N372904.99 | W1220325.71 |

RUNWAYS

|                                            |                                            |                                            |                                                                                                      |                          |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN FRANCISCO, CA</b> | ELEVATION: <b>13</b> TDZE: <b>13</b>       | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 28L, AMDT 5A</b><br><br>21 JULY 2016 | SUP: <b>4</b>            |
|                                            | AIRPORT NAME:<br><b>SAN FRANCISCO INTL</b> |                                            |                                                                                                      | AMDT: <b>5</b>           |
|                                            |                                            |                                            |                                                                                                      | DATED: <b>03/05/2015</b> |

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| <p align="center"><b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b></p> <p align="center"><b><u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u></b></p> <p align="center"><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b></p> | <p>Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.</p> |
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p align="center"><b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b></p> <p align="center"><b><u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u></b></p> <p align="center"><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b></p> | <p>Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW28L  | N373643.55            | W1222133.35            | 00013                  | 52.6             |

CITY AND STATE  
SAN FRANCISCO, CA

|               |                    |
|---------------|--------------------|
| ELEVATION: 13 | TDZE: 13           |
| AIRPORT NAME: | SAN FRANCISCO INTL |

FACILITY  
IDENTIFIER:

**RNAV**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**RNAV (GPS) RWY 28L, AMDT 5A**  
 21 JULY 2016

|        |            |
|--------|------------|
| SUP:   | 4          |
| AMDT:  | 5          |
| DATED: | 03/05/2015 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------|--------|----------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|------------------|-----|---------|
| <b>RNAV - STANDARD</b><br><b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                        |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | TO                     |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |       |                                        |        | ALTITUDE       |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW28R<br><br>CLIMB TO 3000 DIRECT VIKYU AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD E, RT, 283.67 INBOUND.<br>CHART FAS OBST: 320 T-L TWR 373511N/1221450W<br>DISTANCE TO THLD FROM 200 HAT: 0.45 NM.<br>CHART VDP AT 2.12 NM TO RW28R*<br>*LNAV ONLY.<br>WAAS CHANNEL # 48803<br>REFERENCE PATH ID: W28A<br>CHART CIRCLING ICON.<br>CHART MANDATORY 8000 AT ARCHI.<br>CHART MANDATORY 4000 AT MENLO.<br>LTP HAE: -28.7 M |       |         |                  |     |         |
| ARCHI (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | ZILED (FB)             |         | 260.22 / 3.96                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 6000           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| ZILED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | GIRRR (FB)             |         | 260.16 / 3.30                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 5000           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| GIRRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | DUMBA (FB)             |         | 260.10 / 3.30                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 4000           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| MENLO (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | CEPIN (FB)             |         | 334.04 / 4.43                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 3000           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| DUMBA (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | CEPIN (FB)             |         | 283.98 / 4.15                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 3000           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| CEPIN (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | AXMUL (FB)             |         | 283.94 / 4.55                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 1800           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| AXMUL (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | RW28R (MAP) (FO)       |         | 283.88 / 5.44                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT CEPIN<br>3. FAC: <u>283.88</u> FAF: <u>AXMUL</u> DIST FAF TO MAP: <u>5.44</u> THLD: <u>5.44</u><br>4. MIN. ALT: <u>CEPIN 3000, AXMUL 1800</u><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1800</u> GS ALT AT: <u>AXMUL 1800</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>54.8</u> 34:1 IS CLEAR<br>8. MSA FROM: <u>RW28R 5100</u> |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         | MAG VAR: 14E                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |         | EPOCH YEAR: 2015 |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        | ALTERNATE: N A |         | STANDARD @                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |         |                  |     |         |
| CATEGORY >>>>>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A      |                        |         | B                                                                                                                                                                                                                                                                                                                                                                    |       |                                        | C      |                |         | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |         | E                |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DH/MDA | VIS                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA                                | DH/MDA | VIS            | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VIS   | HAT/HAA | DH/MDA           | VIS | HAT/HAA |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 213    | 2400                   | 200     | 213                                                                                                                                                                                                                                                                                                                                                                  | 2400  | 200                                    | 213    | 2400           | 200     | 213                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2400  | 200     |                  |     |         |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 642    | 1 5/8                  | 629     | 642                                                                                                                                                                                                                                                                                                                                                                  | 1 5/8 | 629                                    | 642    | 1 5/8          | 629     | 642                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 5/8 | 629     |                  |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 760    | 2400                   | 747     | 760                                                                                                                                                                                                                                                                                                                                                                  | 4000  | 747                                    | 760    | 1 3/4          | 747     | 760                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 3/4 | 747     |                  |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 760    | 1                      | 747     | 960                                                                                                                                                                                                                                                                                                                                                                  | 1 1/4 | 947                                    | 1560   | 3              | 1547    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA    |         |                  |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| NOTES:<br>CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R. @ CAT B 1000-2, CAT C 1600-3<br>CHART NOTE: CIRCLING RWY 1L, 1R NA AT NIGHT.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 3C (38F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |                  |     |         |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | ELEVATION: 13 TDZE: 13 |         | FACILITY IDENTIFIER: RNAV                                                                                                                                                                                                                                                                                                                                            |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |        |                |         | SUP:                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |         |                  |     |         |
| SAN FRANCISCO, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | AIRPORT NAME:          |         | SAN FRANCISCO INTL                                                                                                                                                                                                                                                                                                                                                   |       | RNAV (GPS) Z RWY 28R, AMDT 5A          |        |                |         | AMDT: 4                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |         |                  |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                        |         |                                                                                                                                                                                                                                                                                                                                                                      |       | 21 JULY 2016                           |        |                |         | DATED 03/05/2015                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |         |                  |     |         |

|                                                                                                                                          |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                                                                        |  |                    |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                         |
| RNAV - STANDARD                                                                                                                          |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33                                                                                  |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| TERMINAL ROUTES, (CONT.):                                                                                                                |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| FROM                                                                                                                                     |  | TO                 |          | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                   | ALTITUDE                                |
| RW28R (MAP)                                                                                                                              |  | 213 MSL            |          | 283.88                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 213 MSL                                                                                                                                  |  | VIKYU (FO)         |          |                                                                                                                                                                                                                                                                                                                                                                       | 3000                                    |
| NOTES, (CONT.):                                                                                                                          |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| CHART PLANVIEW NOTE: RADAR REQUIRED.                                                                                                     |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).                                              |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| CHART SPEED ICON IN PLANVIEW AT ARCHI: MAX 230 KIAS.                                                                                     |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| CHART SPEED ICON IN PLANVIEW AT MENLO: MAX 230 KIAS.                                                                                     |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| CHART NOTE: FOR INOPERATIVE ALSF, INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 2 1/2 MILE; INCREASE LNAV VISIBILITY CATS C AND D TO 2 MILE. |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| CITY AND STATE                                                                                                                           |  | ELEVATION: 13      | TDZE: 13 | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                  | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: |
| SAN FRANCISCO, CA                                                                                                                        |  | AIRPORT NAME:      |          | RNAV                                                                                                                                                                                                                                                                                                                                                                  | RNAV (GPS) Z RWY 28R, AMDT 5A           |
|                                                                                                                                          |  | SAN FRANCISCO INTL |          |                                                                                                                                                                                                                                                                                                                                                                       | 21 JULY 2016                            |
|                                                                                                                                          |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       | SUP: 4                                  |
|                                                                                                                                          |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       | AMDT: 5                                 |
|                                                                                                                                          |  |                    |          |                                                                                                                                                                                                                                                                                                                                                                       | DATED: 03/05/2015                       |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSFO          |
| RUNWAY                                   | RW28R         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Z             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W28A          |
| LTP/FTP LATITUDE                         | 373650.1050N  |
| LTP/FTP LONGITUDE                        | 1222129.0075W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00287        |
| FPAP LATITUDE                            | 373743.4590N  |
| FPAP LONGITUDE                           | 1222336.2080W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00054.8       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |

**CRC REMAINDER**

18AE149D

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00039 |
| FPAP ORTHOMETRIC HEIGHT | +00039 |

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 28R, AMDT 5A

21 JULY 2016

SUP:

AMDT:

DATED:

QUALITY

4

CHECKED

5

03/05/2015

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSFO

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARCHI      | 010        | ARCHI       | IF          | FB    |     |            |            |       |             |               |                | AT 08000                           | AB 230                                | E A                        |
| ARCHI      | 020        | ZILED       | TF          | FB    | 1.0 | 260.2      |            |       |             |               |                | AA 06000                           |                                       | E                          |
| ARCHI      | 030        | GIRRR       | TF          | FB    | 1.0 | 260.2      |            |       |             |               |                | AA 05000                           |                                       | E                          |
| ARCHI      | 040        | DUMBA       | TF          | FB    | 1.0 | 260.1      |            |       |             |               |                | AA 04000                           |                                       | E                          |
| ARCHI      | 050        | CEPIN       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 03000                           |                                       | EE B                       |
| DUMBA      | 010        | DUMBA       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| DUMBA      | 020        | CEPIN       | TF          | FB    | 1.0 | 284.0      |            |       |             |               |                | AA 03000                           |                                       | EE B                       |
| MENLO      | 010        | MENLO       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           | AB 230                                | E A                        |
| MENLO      | 020        | CEPIN       | TF          | FB    | 1.0 | 334.0      |            |       |             |               |                | AA 03000                           |                                       | EE B                       |
|            | 010        | CEPIN       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | AXMUL       | TF          | FB    | 1.0 | 283.9      |            |       |             | RW28R         |                | AA 01800                           |                                       | E F                        |
|            | 030        | RW28R       | TF          | FO    | 0.3 | 283.9      |            | 3.00  |             |               |                | AT 00068                           |                                       | GY M                       |
|            | 040        | CA          | FB          |       |     | 283.9      |            |       |             |               |                | AA 00213                           |                                       | M                          |
|            | 050        | VIKYU       | DF          | FO    |     |            |            |       |             |               |                | AA 03000                           |                                       | EY                         |
|            | 060        | VIKYU       | HM          | FO    |     | 283.7      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ARCHI      | N372926.87 | W1215231.95 |
| AXMUL      | N373417.45 | W1221525.91 |
| CEPIN      | N373209.43 | W1221022.35 |
| DUMBA      | N373012.66 | W1220546.13 |
| GIRRR      | N372958.56 | W1220138.05 |
| MENLO      | N372749.27 | W1220913.17 |
| VIKYU      | N374248.64 | W1223546.34 |
| ZILED      | N372944.25 | W1215729.56 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW28R  | N373650.11            | W1222129.01            | 00013                  | 54.8             |

|                                            |                                            |                                            |                                                                                                        |                          |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN FRANCISCO, CA</b> | ELEVATION: <b>13</b> TDZE: <b>13</b>       | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><br><b>RNAV (GPS) Z RWY 28R, AMDT 5A</b><br>21 JULY 2016 | SUP: <b>4</b>            |
|                                            | AIRPORT NAME:<br><b>SAN FRANCISCO INTL</b> |                                            |                                                                                                        | AMDT: <b>5</b>           |
|                                            |                                            |                                            |                                                                                                        | DATED: <b>03/05/2015</b> |

|                                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|----------------------------------------------------------------------------------------------|------|----------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|------------------|-----|---------|
| <b>US DEPARTMENT OF TRANSPORTATION<br/>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                            |        |                            |         | <b>RNAV (RNP) - STANDARD,<br/>INSTRUMENT APPROACH PROCEDURE,<br/>TITLE 14 CFR PART 97.33</b> |      |                      |        | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                     |      |                  |                  |     |         |
| FROM                                                                                                                                                                                                                                  |        | TO                         |         | COURSE AND DISTANCE                                                                          |      |                      |        | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |         | <b>RNP: DA</b><br><br><b>CLIMB TO 3000 ON TRACK 283.83 TO VIKYU AND HOLD.</b><br><br><b>ADDITIONAL FLIGHT DATA:</b><br>HOLD E, RT, 283.67 INBOUND.<br>CHART FAS OBST: 46 ANT 373634N/1222050W<br>DISTANCE TO THLD FROM 348 HAT: 0.92 NM.<br>#TCH 68.1 MSL (DO NOT CHART)<br>ROUTE TYPE: A, H<br>ROUTE TYPE QUALIFIER 1: F<br>ROUTE TYPE QUALIFIER 2: S<br>CHART MANDATORY 8000 AT ARCHI.<br>CHART MANDATORY 4000 AT MENLO. |      |                  |                  |     |         |
| ARCHI (IAF)                                                                                                                                                                                                                           |        | WIBNI (TF) (FB)(RNP 1.00)  |         | 267.84 / 7.60                                                                                |      |                      |        | 4900                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| WIBNI                                                                                                                                                                                                                                 |        | GUTTS (TF) (FB) (RNP 1.00) |         | 272.81 / 6.21                                                                                |      |                      |        | 3400                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| MENLO (IAF)                                                                                                                                                                                                                           |        | GUTTS (TF) (FB)(RNP 1.00)  |         | 344.75 / 4.97                                                                                |      |                      |        | 3400                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| GUTTS (IF)                                                                                                                                                                                                                            |        | DONNG (TF) (FB) (RNP 1.00) |         | 283.87 / 5.15                                                                                |      |                      |        | 1800                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| DONNG (FAF)                                                                                                                                                                                                                           |        | *JOSUF (RF) (FB)           |         | (2.92 NM RADIUS CCW (CFFJZ))/1.68                                                            |      |                      |        | 1264                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| (SEE FORM 8260-10)                                                                                                                                                                                                                    |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                  |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 2. PROFILE STARTS AT GUTTS                                                                                                                                                                                                            |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 3. FAC: * _____ FAF: * SEE TERMINAL ROUTES FROM DONNG DIST FAF TO MAP: _____ THLD: _____                                                                                                                                              |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 4. MIN. ALT: GUTTS 3400, DONNG 1800                                                                                                                                                                                                   |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 5. DIST TO THLD FROM OM: 5.44 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                         |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 6. MIN GS INCPT: 1800 GS ALT AT: DONNG 1800, JOSUF 1264, FABLA 740 OM: _____ MM: _____ IM: _____                                                                                                                                      |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 7. GS ANGLE: 3.00 TCH: #55.2 34:1 IS CLEAR                                                                                                                                                                                            |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| 8. MSA FROM: RW28R 5100                                                                                                                                                                                                               |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         | MAG VAR: 14E                                                                                                                                                                                                                                                                                                                                                                                                               |      |                  | EPOCH YEAR: 2015 |     |         |
| <b>MINIMUMS</b>                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |         | STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                  |                  |     |         |
| CATEGORY =====>                                                                                                                                                                                                                       |        | A                          |         | B                                                                                            |      | C                    |        | D                                                                                                                                                                                                                                                                                                                                                                    |         | E                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                  |                  |     |         |
|                                                                                                                                                                                                                                       | DH/MDA | VIS                        | HAT/HAA | DH/MDA                                                                                       | VIS  | HAT/HAA              | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                     | VIS  | HAT/HAA          | DH/MDA           | VIS | HAT/HAA |
|                                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
|                                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
|                                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| <b>AUTHORIZATION REQUIRED</b>                                                                                                                                                                                                         |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| RNP 0.11 DA %                                                                                                                                                                                                                         | 361    | 3000                       | 348     | 361                                                                                          | 3000 | 348                  | 361    | 3000                                                                                                                                                                                                                                                                                                                                                                 | 348     | 361                                                                                                                                                                                                                                                                                                                                                                                                                        | 3000 | 348              |                  |     |         |
| RNP 0.30 DA @                                                                                                                                                                                                                         | 415    | 4500                       | 402     | 415                                                                                          | 4500 | 402                  | 415    | 4500                                                                                                                                                                                                                                                                                                                                                                 | 402     | 415                                                                                                                                                                                                                                                                                                                                                                                                                        | 4500 | 402              |                  |     |         |
|                                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 3C (38F) OR ABOVE 54C (130F).<br>CHART NOTE: RF REQUIRED.<br>CHART NOTE: GPS REQUIRED.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>(CONTINUED ON PAGE 2) |        |                            |         |                                                                                              |      |                      |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |     |         |
| CITY AND STATE                                                                                                                                                                                                                        |        | ELEVATION: 13              |         | TDZE: 13                                                                                     |      | FACILITY IDENTIFIER: |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      | SUP:             |                  |     |         |
| SAN FRANCISCO, CA                                                                                                                                                                                                                     |        | AIRPORT NAME:              |         | SAN FRANCISCO INTL                                                                           |      | RNAV                 |        | RNAV (RNP) Y RWY 28R, AMDT 3A                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      | AMDT: 3          |                  |     |         |
|                                                                                                                                                                                                                                       |        |                            |         |                                                                                              |      |                      |        | 21 JULY 2016                                                                                                                                                                                                                                                                                                                                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                            |      | DATED 04/30/2015 |                  |     |         |

QUALITY  
25  
CHECKED

**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) - STANDARD,**  
**INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| FROM        | TO                         | COURSE AND DISTANCE              | ALTITUDE |
|-------------|----------------------------|----------------------------------|----------|
| JOSUF       | *FABLA (RF) (FB)           | (2.85 NM RADIUS CW (CFFJX))/1.65 | 740      |
| FABLA       | *RW28R (MAP) (TF) (FO)     | 283.84 / 2.11                    |          |
| RW28R (MAP) | VIKYU (TF) (FO) (RNP 1.00) | 283.83 / 12.82                   | 3000     |

## NOTES, (CONT.):

**CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).**

**CHART NOTE: %MISSED APPROACH REQUIRES MINIMUM CLIMB OF 250 FEET PER NM TO 2000.**

**CHART NOTE: @MISSED APPROACH REQUIRES MINIMUM CLIMB OF 325 FEET PER NM TO 2500 .**

**CHART SPEED ICON IN PLANVIEW AT ARCHI: MAX 230 KIAS.**

**CHART SPEED ICON IN PLANVIEW AT MENLO: MAX 230 KIAS.**

QUALITY  
25  
CHECKED

|                                         |                    |          |                                     |                                                                                                 |        |            |
|-----------------------------------------|--------------------|----------|-------------------------------------|-------------------------------------------------------------------------------------------------|--------|------------|
| CITY AND STATE<br><br>SAN FRANCISCO, CA | ELEVATION: 13      | TDZE: 13 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (RNP) Y RWY 28R, AMDT 3A<br><br>21 JULY 2016 | SUP:   |            |
|                                         | AIRPORT NAME:      |          |                                     |                                                                                                 | AMDT:  | 3          |
|                                         | SAN FRANCISCO INTL |          |                                     |                                                                                                 | DATED: | 04/30/2015 |



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSFO

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARCHI      | 010        | ARCHI       | IF          | FB    |     |            |            |       |             |               |                | AT 08000                           | AB 230                                | E A                        |
| ARCHI      | 020        | WIBNI       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 04900                           |                                       | E                          |
| ARCHI      | 030        | GUTTS       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03400                           |                                       | EE B                       |
| MENLO      | 010        | MENLO       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           | AB 230                                | E A                        |
| MENLO      | 020        | GUTTS       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03400                           |                                       | EE B                       |
|            | 010        | GUTTS       | IF          | FB    |     |            |            |       |             |               |                | AA 03400                           |                                       | E I                        |
|            | 020        | DONNG       | TF          | FB    | 1.0 |            |            |       |             | RW28R         |                | AA 01800                           |                                       | E F                        |
|            | 021        | JOSUF       | RF          | FB    | 0.3 |            |            | 3.00  | L           | CFFJZ         | 02.92          | AA 01264                           |                                       | E                          |
|            | 022        | FABLA       | RF          | FB    | 0.3 |            |            | 3.00  | R           | CFFJX         | 02.85          | AA 00740                           |                                       | E                          |
|            | 030        | RW28R       | TF          | FO    | 0.3 |            |            | 3.00  |             |               |                | AT 00068                           |                                       | GY M                       |
|            | 040        | VIKYU       | TF          | FO    | 1.0 |            |            |       |             |               |                | AA 03000                           |                                       | EYM                        |
|            | 050        | VIKYU       | HM          | FO    |     | 283.7      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ARCHI      | N372926.87 | W1215231.95 |
| CFFJX      | N373822.28 | W1221727.52 |
| CFFJZ      | N373237.11 | W1221647.78 |
| DONNG      | N373512.28 | W1221505.01 |
| FABLA      | N373550.91 | W1221908.08 |
| GUTTS      | N373247.84 | W1220921.38 |
| JOSUF      | N373531.79 | W1221707.88 |
| MENLO      | N372749.27 | W1220913.17 |
| VIKYU      | N374248.64 | W1223546.34 |
| WIBNI      | N373100.19 | W1220152.91 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW28R  | N373650.11            | W1222129.01            | 00013                  | 55.2             |

QUALITY  
28  
CHECKED

|                                            |                                                                    |                                    |                                            |                                                                                                        |                          |
|--------------------------------------------|--------------------------------------------------------------------|------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN FRANCISCO, CA</b> | ELEVATION: <b>13</b><br>AIRPORT NAME:<br><b>SAN FRANCISCO INTL</b> | TDZE: <b>13</b><br><br><b>RNAV</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (RNP) Y RWY 28R, AMDT 3A</b><br><br>21 JULY 2016 | SUP:                     |
|                                            |                                                                    |                                    |                                            |                                                                                                        | AMDT: <b>3</b>           |
|                                            |                                                                    |                                    |                                            |                                                                                                        | DATED: <b>04/30/2015</b> |

|                                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|-----------------------------------------------------------------|--------|-----|----------------------------------------------------------------------------|--------|-----------------|----------------------------------|-----------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------------------------------------------------------------|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                              |        |     |                                                                 |        |     | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |        |                 |                                  |                 |     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |     |                                                               |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| FROM                                                                                                                                                                                                            |        |     | TO                                                              |        |     | COURSE AND DISTANCE                                                        |        |                 | ALTITUDE                         |                 |     | ILS: DA<br>LOC: I-SJC 1.61 DME FIX                                                                                                                                                                                                                                                                                                                                   |        |     |                                                               |  |  |
| ARTAQ INT/I-SLV 8.96 DME (IF)                                                                                                                                                                                   |        |     | SUNNE INT/I-SLV 6.96 DME                                        |        |     | 125.81 / 2.00 (I-SLV)                                                      |        |                 | 1800                             |                 |     | CLIMB TO 500 THEN CLIMB TO 4000 ON SJC VOR/DME R-121 TO GILRO/SJC 26.69 DME AND HOLD.                                                                                                                                                                                                                                                                                |        |     |                                                               |  |  |
|                                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     | ADDITIONAL FLIGHT DATA:<br>HOLD SE, LT, 301.40 INBOUND.<br>CHART FAS OBST: 164 TANK 372307N/1215727W<br>CHART FAS OBST: 223 BLDG 372407N/1215809W                                                                                                                                                                                                                    |        |     |                                                               |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                            |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 2. PROFILE STARTS AT ARTAQ INT/I-SLV 8.96 DME                                                                                                                                                                   |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 3. FAC: 125.81 FAF: SUNNE INT/I-SLV 6.96 DME DIST FAF TO MAP: _____ THLD: 5.35                                                                                                                                  |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 4. MIN. ALT: ARTAQ 1800, SUNNE 1800, JUJGE/I-SLV 2.96 DME 520*                                                                                                                                                  |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - _____ 100 HAT: _____ - _____ GS ANT: 1060                                                                                   |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 6. MIN GS INCPT: 1800 GS ALT AT: SUNNE 1800 OM: _____ - _____ MM: _____ - _____ IM: _____ - _____                                                                                                               |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 7. GS ANGLE: 3.00 TCH: 58.0                                                                                                                                                                                     |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| 8. MSA FROM: SJC VOR/DME 5600                                                                                                                                                                                   |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     | MAG VAR: 13E                                                                                                                                                                                                                                                                                                                                                         |        |     | EPOCH YEAR: 2020                                              |  |  |
| MINIMUMS                                                                                                                                                                                                        |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                 |        |     |                                                                 |        |     | ALTERNATE: N A                                                             |        | ILS: STANDARD # |                                  | LOC: STANDARD @ |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| CATEGORY =====>                                                                                                                                                                                                 |        | A   |                                                                 |        | B   |                                                                            |        | C               |                                  |                 | D   |                                                                                                                                                                                                                                                                                                                                                                      |        | E   |                                                               |  |  |
|                                                                                                                                                                                                                 | DH/MDA | VIS | HAT/HAA                                                         | DH/MDA | VIS | HAT/HAA                                                                    | DH/MDA | VIS             | HAT/HAA                          | DH/MDA          | VIS | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS | HAT/HAA                                                       |  |  |
| S-ILS 12R                                                                                                                                                                                                       | 251    | 1/2 | 205                                                             | 251    | 1/2 | 205                                                                        | 251    | 1/2             | 205                              | 251             | 1/2 | 205                                                                                                                                                                                                                                                                                                                                                                  |        |     |                                                               |  |  |
| S-LOC 12R                                                                                                                                                                                                       | 420    | 1/2 | 374                                                             | 420    | 1/2 | 374                                                                        | 420    | 5/8             | 374                              | 420             | 5/8 | 374                                                                                                                                                                                                                                                                                                                                                                  |        |     |                                                               |  |  |
| SIDESTEP 12L                                                                                                                                                                                                    | 600    | 1   | 556                                                             | 600    | 1   | 556                                                                        | 600    | 1 1/2           | 556                              | 600             | 2   | 556                                                                                                                                                                                                                                                                                                                                                                  |        |     |                                                               |  |  |
|                                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
|                                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
|                                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
|                                                                                                                                                                                                                 |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| NOTES:<br>CHART NOTE: DME REQUIRED.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>*LOC ONLY<br>(CONTINUED ON PAGE 2) |        |     |                                                                 |        |     |                                                                            |        |                 |                                  |                 |     |                                                                                                                                                                                                                                                                                                                                                                      |        |     |                                                               |  |  |
| CITY AND STATE<br>SAN JOSE, CA                                                                                                                                                                                  |        |     | ELEVATION: 62<br>AIRPORT NAME:<br>NORMAN Y MINETA SAN JOSE INTL |        |     | TDZE: 12R 46<br>TDZE: 12L 44                                               |        |                 | FACILITY<br>IDENTIFIER:<br>I-SLV |                 |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 12R, AMDT 8A<br>21 JULY 2016                                                                                                                                                                                                                                                                                |        |     | SUP: ILS OR LOC/DME<br>RWY 12R<br>AMDT: 8<br>DATED 03/05/2015 |  |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

\*LOC ONLY

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 12R CAT C/D VISIBILITY TO 1 MILE.

QUALITY  
6  
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CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

AIRPORT NAME:

NORMAN Y MINETA SAN JOSE INTL

TDZE: 12R 46

TDZE: 12L 44

FACILITY  
IDENTIFIER:

I-SLV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 12R, AMDT 8A

21 JULY 2016

SUP: ILS OR LOC/DME  
RWY 12R

AMDT: 8

DATED: 03/05/2015

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |             |             |       |                       |            |            |       |             |                        |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                        |                  |
|---------------------------------------------------------------------|------------|-------------|-------------|-------|-----------------------|------------|------------|-------|-------------|------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|------------------------|------------------|
| ILS STANDARD INSTRUMENT APPROACH PROCEDURE                          |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29                 |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ARINC SUMMARY - KSJC                                                |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ROUTES                                                              |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP                   | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX          | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                        |                  |
|                                                                     | 010        | ARTAQ       | IF          | FB    |                       |            | ISLV       |       |             |                        |                | AA 01800 GI 01800                                                                                                                                                                                                                                                                                                                                                    |                                       | E I                        |                        |                  |
|                                                                     | 020        | SUNNE       | CF          | FB    |                       | 126.0      | ISLV       | 3.00  |             | SJC                    |                | GI 01800 GS 01800                                                                                                                                                                                                                                                                                                                                                    |                                       | E F                        |                        |                  |
|                                                                     | 030        | RW12R       | CF          | FO    |                       | 126.0      | ISLV       | 3.00  |             |                        |                | AT 00096                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |                        |                  |
|                                                                     | 040        |             | CA          | FB    |                       | 125.8      |            |       |             |                        |                | AA 00500                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |                        |                  |
|                                                                     | 050        | GILRO       | CF          | FO    |                       | 121.4      | SJC        |       |             |                        |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |                        |                  |
|                                                                     | 060        | GILRO       | HM          | FO    |                       | 301.4      |            |       | L           |                        |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |                        |                  |
| POINTS                                                              |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| POINT NAME                                                          |            |             |             |       | LATITUDE              |            |            |       |             | LONGITUDE              |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| SJC                                                                 |            |             |             |       | N372228.96            |            |            |       |             | W1215640.80            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ISLV (DME)                                                          |            |             |             |       | N372102.66            |            |            |       |             | W1215501.34            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| GILRO                                                               |            |             |             |       | N370246.62            |            |            |       |             | W1213406.76            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ARTAQ                                                               |            |             |             |       | N372748.04            |            |            |       |             | W1220225.34            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| SUNNE                                                               |            |             |             |       | N372617.63            |            |            |       |             | W1220046.10            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ISLV (LOC)                                                          |            |             |             |       | N372103.04            |            |            |       |             | W1215500.85            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| RUNWAYS                                                             |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| RUNWAY                                                              |            |             |             |       | THRESHOLD<br>LATITUDE |            |            |       |             | THRESHOLD<br>LONGITUDE |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
| RW12R                                                               |            |             |             |       | N372215.77            |            |            |       |             | W1215620.57            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | 00038                  | 58.0             |

QUALITY  
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|                                       |                                                       |                     |                                          |                                                                                                      |                                    |
|---------------------------------------|-------------------------------------------------------|---------------------|------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b>                                  | TDZE: <b>12R 46</b> | FACILITY IDENTIFIER:<br><br><b>I-SLV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 12R, AMDT 8A</b><br><br>21 JULY 2016 | SUP: <b>ILS OR LOC/DME RWY 12R</b> |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> | TDZE: <b>12L 44</b> |                                          |                                                                                                      | AMDT: <b>8</b>                     |
|                                       | DATED: <b>03/05/2015</b>                              |                     |                                          |                                                                                                      |                                    |

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                        |                        |                  |                                                                                                                                                              |            |            |       |             |                                                                             |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |       |     |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |            |            |             |       |            |             |       |            |             |       |            |             |       |            |             |            |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
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-|-----|--|-----|-------|----|----|--|-------|------|------|--|--|--|----------|--|------|--|-----|--|----|----|--|-------|--|--|--|--|--|----------|--|---|--|-----|-------|----|----|--|-------|-----|--|--|--|--|----------|--|----|--|-----|-------|----|----|--|-------|--|--|---|--|--|----------|--|----|------------|----------|-----------|-----|------------|-------------|------------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|------------|------------|-------------|--------|-----------------------|------------------------|------------------------|------------------|-------|------------|-------------|-------|------|
| <div style="margin-bottom: 10px;">ARINC SUMMARY - Ksjc</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td></td><td>010</td><td>ARTAQ</td><td>IF</td><td>FB</td><td></td><td></td><td>ISLV</td><td></td><td></td><td></td><td></td><td>AA 01800</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>SUNNE</td><td>CF</td><td>FB</td><td></td><td>126.0</td><td>ISLV</td><td></td><td></td><td>SJC</td><td></td><td>AA 01800</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>JUJGE</td><td>CF</td><td>FB</td><td></td><td>126.0</td><td>ISLV</td><td>3.01</td><td></td><td></td><td></td><td>AA 00520</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW12R</td><td>CF</td><td>FO</td><td></td><td>126.0</td><td>ISLV</td><td>3.01</td><td></td><td></td><td></td><td>AT 00096</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>125.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 00500</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>GILRO</td><td>CF</td><td>FO</td><td></td><td>121.4</td><td>SJC</td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>GILRO</td><td>HM</td><td>FO</td><td></td><td>301.4</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04000</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 010                   | ARTAQ                  | IF                     | FB               |                                                                                                                                                              |            | ISLV       |       |             |                                                                             |                | AA 01800                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 020                   | SUNNE                  | CF                     | FB               |                                                                                                                                                              | 126.0      | ISLV       |       |             | SJC                                                                         |                | AA 01800                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 021                   | JUJGE                  | CF                     | FB               |                                                                                                                                                              | 126.0      | ISLV       | 3.01  |             |                                                                             |                | AA 00520                                                                                                                                                                                                                                                                                                                                                             |                                       | E S                        |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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 | AT 00096                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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 | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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 | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| SJC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| ISLV (DME)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| GILRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| ARTAQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| JUJGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| SUNNE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| ISLV (LOC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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| RW12R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                                                  |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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| CITY AND STATE<br><div style="text-align: center;"><b>SAN JOSE, CA</b></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                        |                        |                  | ELEVATION: <b>62</b> <b>TDZE: 12R 46</b><br>AIRPORT NAME: <b>TDZE: 12L 44</b><br><div style="text-align: center;"><b>NORMAN Y MINETA SAN JOSE INTL</b></div> |            |            |       |             | FACILITY IDENTIFIER:<br><div style="text-align: center;"><b>I-SLV</b></div> |                | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>ILS OR LOC RWY 12R, AMDT 8A</b></div><br><div style="text-align: center;">21 JULY 2016</div>                                                                                                                                                                                       |                                       |                            | SUP: <b>ILS OR LOC/DME<br/>RWY 12R</b><br><hr/> AMDT: <b>8</b><br><hr/> DATED: <b>03/05/2015</b> |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |      |  |  |  |  |          |  |     |  |     |       |    |    |  |       |      |  |  |     |  |          |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |   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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------|------------------|---------|----------------------------------------------------------------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | MISSED APPROACH |        |                  |         |                                                                |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | TO                                                                         |      | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |        | ALTITUDE                      |         | ILS: DA<br>LOC: I-SJC 1.43 DME FIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                 |        |                  |         |                                                                |     |         |
| GILRO INT (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | KLIDE/I-SJC 16.71 DME                                                      |      | 261.00 / .85 (HDG) & 305.82 / 9.28 (I-SJC)                                                                                                                                                                                                                                                                                                                           |        | 4000                          |         | CLIMB TO 1900 ON SJC VOR/DME R-303 TO SUNNE INT/SJC 5.01 DME AND HOLD, OR AS DIRECTED BY ATC.<br><br>ALTERNATE MA: CLIMB TO 3000 DIRECT OAK VORTAC AND HOLD NW, RT, 120.00 INBOUND.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 123.47 INBOUND.<br>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW OAK VORTAC, RT, 120.00 INBOUND.<br>CHART FAS OBST: 373 BLDG 371938N/1215321W<br>CHART VDP AT 3.04 DME*<br>DISTANCE VDP TO THLD 1.60 NM.<br>*LOC ONLY.<br>CHART (CFBJK) AT INTERSECTION OF GILRO DR LEG AND INTERMEDIATE COURSE.<br>CHART IN PLANVIEW: OAK VORTAC.<br>CHART AT/ABOVE 4000 AT KLIDE. |       |                 |        |                  |         |                                                                |     |         |
| KLIDE/I-SJC 16.71 DME (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | ZULUP/I-SJC 13.41 DME                                                      |      | 305.82 / 3.30 (I-SJC)                                                                                                                                                                                                                                                                                                                                                |        | 3600                          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| ZULUP/I-SJC 13.41 DME (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | JENES/I-SJC 11.60 DME                                                      |      | 305.82 / 1.81 (I-SJC)                                                                                                                                                                                                                                                                                                                                                |        | 3200                          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| JENES/I-SJC 11.60 DME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | HIVAK/I-SJC 9.56 DME                                                       |      | 305.82 / 2.04 (I-SJC)                                                                                                                                                                                                                                                                                                                                                |        | 2700                          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT KLIDE/I-SJC 16.71 DME<br>3. FAC: 305.82 FAF: HIVAK/I-SJC 9.56 DME DIST FAF TO MAP: _____ THLD: 8.13<br>4. MIN. ALT: KLIDE 4000, ZULUP 3600, JENES 3200, HIVAK 2700, FORUL/I-SJC 4.23 DME 1000*<br>5. DIST TO THLD FROM OM: _____ - MM: _____ - IM: _____ 150 HAT: 1826 100 HAT: 872 GS ANT: 1109<br>6. MIN GS INCPT: 2700 GS ALT AT: HIVAK 2700 OM: _____ - MM: _____ - IM: _____<br>7. GS ANGLE: 3.00 TCH: 54.4<br>8. MSA FROM: SJC VOR/DME 5600 |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | MAG VAR: 13E    |        | EPOCH YEAR: 2020 |         |                                                                |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTERNATE: N A                |         | ILS: STANDARD #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | LOC: STANDARD # |        |                  |         |                                                                |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | A                                                                          |      | B                                                                                                                                                                                                                                                                                                                                                                    |        | C                             |         | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | E               |        |                  |         |                                                                |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | DH/MDA                                                                     | VIS  | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                           | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VIS   | HAT/HAA         | DH/MDA | VIS              | HAT/HAA | DH/MDA                                                         | VIS | HAT/HAA |
| S-ILS 30L**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 257                                                                        | 2400 | 200                                                                                                                                                                                                                                                                                                                                                                  | 257    | 2400                          | 200     | 257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2400  | 200             | 257    | 2400             | 200     |                                                                |     |         |
| S-LOC 30L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 640                                                                        | 2400 | 583                                                                                                                                                                                                                                                                                                                                                                  | 640    | 2400                          | 583     | 640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 1/4 | 583             | 640    | 1 1/4            | 583     |                                                                |     |         |
| SIDESTEP 30R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 640                                                                        | 1    | 585                                                                                                                                                                                                                                                                                                                                                                  | 640    | 1                             | 585     | 640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 1/2 | 585             | 640    | 2                | 585     |                                                                |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| NOTES:<br>SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30L: CAT A, B, C, D, RA 147, RVR 1400, HAT 150, DA 207 MSL.<br>SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30L: CAT A, B, C, D, RA 97, RVR 1200, HAT 100, DA 157 MSL.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                              |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                 |        |                  |         |                                                                |     |         |
| CITY AND STATE<br>SAN JOSE, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | ELEVATION: 62<br>AIRPORT NAME:<br>NORMAN Y MINETA SAN JOSE INTL            |      | TDZE: 30L 57<br>TDZE: 30R 55                                                                                                                                                                                                                                                                                                                                         |        | FACILITY IDENTIFIER:<br>I-SJC |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 30L, AMDT 25; ILS RWY 30L (SA CAT I),<br>ILS RWY 30L (SA CAT II)<br>21 JULY 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                 |        |                  |         | SUP: ILS OR LOC/DME<br>RWY 30L<br>AMDT: 24<br>DATED 10/15/2015 |     |         |



**ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

CHART NOTE: \*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

CHART NOTE: DME REQUIRED.

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART SPEED ICON IN PLANVIEW AT KLIDE: AT 230 KIAS.

SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.

SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

SA CAT III CHART NOTE: NOT AUTHORIZED WHEN TOWER CLOSED.

QUALITY  
6  
CHECKED

CITY AND STATE

SAN JOSE, CA

**ELEVATION: 62**

AIRPORT NAME:

TDZE: 30L 57

TDZE: 30R 55

NORMAN Y MINETA SAN JOSE INTL

FACILITY

IDENTIFIER:

I-SJC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 30L, AMDT 25; ILS RWY 30L (SA CAT I),  
ILS RWY 30L (SA CAT II)  
21 JULY 2016

SUP: **ILS OR LOC/DME  
RWY 30L**AMDT: **24**DATED: **10/15/2015**

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSJC

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| GILRO      | 010        | GILRO       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| GILRO      | 020        | CFBJK       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E                          |
| GILRO      | 030        | KLIDE       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           | AT 230                                | E                          |
| GILRO      | 040        | ZULUP       | TF          | FB    |     |            |            |       |             |               |                | AA 03600                           |                                       | E B                        |
| GILRO      | 050        | JENES       | CF          | FB    |     | 305.8      | ISJC       |       |             |               |                | AA 03200                           |                                       | EE                         |
| KLIDE      | 010        | KLIDE       | IF          | FB    |     |            |            |       |             |               |                | AA 04000                           | AT 230                                | E A                        |
| KLIDE      | 020        | ZULUP       | TF          | FB    |     |            |            |       |             |               |                | AA 03600                           |                                       | E B                        |
| KLIDE      | 030        | JENES       | CF          | FB    |     | 305.8      | ISJC       |       |             |               |                | AA 03200                           |                                       | EE                         |
|            | 010        | JENES       | IF          | FB    |     |            | ISJC       |       |             |               |                | AA 03200 GI 02700                  |                                       | E I                        |
|            | 020        | HIVAK       | CF          | FB    |     | 306.0      | ISJC       | 3.00  |             | SJC           |                | GI 02700 GS 02700                  |                                       | E F                        |
|            | 030        | RW30L       | CF          | FO    |     | 306.0      | ISJC       | 3.00  |             |               |                | AT 00111                           |                                       | GY M                       |
|            | 040        | SUNNE       | CF          | FO    |     | 303.5      | SJC        |       |             |               |                | AA 01900                           |                                       | EYM                        |
|            | 050        | SUNNE       | HM          | FO    |     | 123.5      |            |       | R           |               |                | AA 01900                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| SJC        | N372228.96 | W1215640.80 |
| ISJC (DME) | N372227.56 | W1215632.60 |
| GILRO      | N370246.62 | W1213406.76 |
| CFBJK      | N370250.17 | W1213510.05 |
| HIVAK      | N371514.72 | W1214839.89 |
| JENES      | N371342.58 | W1214659.39 |
| KLIDE      | N370951.03 | W1214246.98 |
| SUNNE      | N372617.63 | W1220046.10 |
| ZULUP      | N371220.41 | W1214529.88 |
| ISJC (LOC) | N372227.19 | W1215633.10 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW30L  | N372122.45            | W1215522.13            | 00057                  | 54.4             |

QUALITY  
15  
CHECKED

|                                       |                                                       |                     |                                             |                                                                                                                                                             |                                              |
|---------------------------------------|-------------------------------------------------------|---------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b>                                  | TDZE: <b>30L 57</b> | FACILITY<br>IDENTIFIER:<br><br><b>I-SJC</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 30L, AMDT 25;</b><br><b>ILS RWY 30L (SA CAT I), ILS RWY 30L (SA CAT II)</b><br>21 JULY 2016 | SUP: <b>ILS OR LOC/DME</b><br><b>RWY 30L</b> |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> | TDZE: <b>30R 55</b> |                                             |                                                                                                                                                             | AMDT: <b>24</b>                              |
|                                       | DATED: <b>10/15/2015</b>                              |                     |                                             |                                                                                                                                                             |                                              |



|                                                                                                                                                                                               |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------|------------------------|-----|------------------------|------------|------------------|-------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25</b> |            |                       |             |                        |     |                        |            |                  |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KSJC                                                                                                                                                                          |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                                                                                                                                                        |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                    | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO                  | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE            | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| GILRO                                                                                                                                                                                         | 010        | GILRO                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| GILRO                                                                                                                                                                                         | 020        | CFBJK                 | TF          | FB                     |     |                        |            |                  |             |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| GILRO                                                                                                                                                                                         | 030        | KLIDE                 | TF          | FB                     |     |                        |            |                  |             |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             | AT 230                                | E                          |
| GILRO                                                                                                                                                                                         | 040        | ZULUP                 | TF          | FB                     |     |                        |            |                  |             |               |                | AA 03600                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| GILRO                                                                                                                                                                                         | 050        | JENES                 | CF          | FB                     |     | 305.8                  | ISJC       |                  |             |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| KLIDE                                                                                                                                                                                         | 010        | KLIDE                 | IF          | FB                     |     |                        |            |                  |             |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             | AT 230                                | E A                        |
| KLIDE                                                                                                                                                                                         | 020        | ZULUP                 | TF          | FB                     |     |                        |            |                  |             |               |                | AA 03600                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| KLIDE                                                                                                                                                                                         | 030        | JENES                 | CF          | FB                     |     | 305.8                  | ISJC       |                  |             |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
|                                                                                                                                                                                               | 010        | JENES                 | IF          | FB                     |     |                        | ISJC       |                  |             |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                                                                                                                                               | 020        | HIVAK                 | CF          | FB                     |     | 306.0                  | ISJC       |                  |             | SJC           |                | AA 02700                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                                                                                                                                               | 021        | FORUL                 | CF          | FB                     |     | 306.0                  | ISJC       | 3.01             |             |               |                | AA 01000                                                                                                                                                                                                                                                                                                                                                             |                                       | E S                        |
|                                                                                                                                                                                               | 030        | RW30L                 | CF          | FO                     |     | 306.0                  | ISJC       | 3.01             |             |               |                | AT 00111                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                               | 040        | SUNNE                 | CF          | FO                     |     | 303.5                  | SJC        |                  |             |               |                | AA 01900                                                                                                                                                                                                                                                                                                                                                             |                                       | EYM                        |
|                                                                                                                                                                                               | 050        | SUNNE                 | HM          | FO                     |     | 123.5                  |            |                  | R           |               |                | AA 01900                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                                                                                                                                                        |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                    |            |                       | LATITUDE    |                        |     | LONGITUDE              |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| SJC                                                                                                                                                                                           |            |                       | N372228.96  |                        |     | W1215640.80            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ISJC (DME)                                                                                                                                                                                    |            |                       | N372227.56  |                        |     | W1215632.60            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| GILRO                                                                                                                                                                                         |            |                       | N370246.62  |                        |     | W1213406.76            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CFBJK                                                                                                                                                                                         |            |                       | N370250.17  |                        |     | W1213510.05            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FORUL                                                                                                                                                                                         |            |                       | N371915.83  |                        |     | W1215303.45            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HIVAK                                                                                                                                                                                         |            |                       | N371514.72  |                        |     | W1214839.89            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JENES                                                                                                                                                                                         |            |                       | N371342.58  |                        |     | W1214659.39            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| KLIDE                                                                                                                                                                                         |            |                       | N370951.03  |                        |     | W1214246.98            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| SUNNE                                                                                                                                                                                         |            |                       | N372617.63  |                        |     | W1220046.10            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ZULUP                                                                                                                                                                                         |            |                       | N371220.41  |                        |     | W1214529.88            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ISJC (LOC)                                                                                                                                                                                    |            |                       | N372227.19  |                        |     | W1215633.10            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                       |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                        |            | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |     | THRESHOLD<br>ELEVATION |            | PROCEDURE<br>TCH |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW30L                                                                                                                                                                                         |            | N372122.45            |             | W1215522.13            |     | 00057                  |            | 54.4             |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
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|                                       |                                                    |                     |                                             |                                                                                                                                                             |                            |
|---------------------------------------|----------------------------------------------------|---------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b>                               | TDZE: <b>30L 57</b> | FACILITY<br>IDENTIFIER:<br><br><b>I-SJC</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 30L, AMDT 25;</b><br><b>ILS RWY 30L (SA CAT I), ILS RWY 30L (SA CAT II)</b><br>21 JULY 2016 | SUP: <b>ILS OR LOC/DME</b> |
|                                       | AIRPORT NAME: <b>NORMAN Y MINETA SAN JOSE INTL</b> | TDZE: <b>30R 55</b> |                                             |                                                                                                                                                             | <b>RWY 30L</b>             |
|                                       | DATED: <b>10/15/2015</b>                           |                     |                                             |                                                                                                                                                             |                            |

|                                                                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|--------------------------------------------------------------------------|-----|---------|-----------------------------------------------------------------------------|---------------------------------|---------|-----------------------------------------------------------------------------------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                     |        |     |         |                                                                          |     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                | MISSED APPROACH               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                   |        |     |         | TO                                                                       |     |         | COURSE AND DISTANCE                                                         |                                 |         |                                                                                         | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW12L<br><br>CLIMB TO 4600 DIRECT COKOR AND ON TRACK 124.43 TO GILRO AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD SE, LT, 304.40 INBOUND.<br>CHART FAS OBST: 252 TWR 372337N/1215818W<br>DISTANCE TO THLD FROM 250 HAT: 0.61 NM.<br>CHART VDP AT 1.29 NM TO RW12L*<br>*LNAV ONLY.<br>WAAS CHANNEL # 69501<br>REFERENCE PATH ID: W12B<br>LTP HAE: -21.1 M |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| ROSTE (IF)                                                                                                                                                                                                                                                                             |        |     |         | OMSEE (FB)                                                               |     |         | 125.74 / 3.18                                                               |                                 |         |                                                                                         | 1800     |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| OMSEE (FAF)                                                                                                                                                                                                                                                                            |        |     |         | RW12L (MAP) (FO)                                                         |     |         | 125.77 / 5.36                                                               |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RW12L (MAP)                                                                                                                                                                                                                                                                            |        |     |         | 294 MSL                                                                  |     |         | 125.77                                                                      |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 294 MSL                                                                                                                                                                                                                                                                                |        |     |         | COKOR (FB)                                                               |     |         |                                                                             |                                 |         |                                                                                         | 4600     |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| COKOR                                                                                                                                                                                                                                                                                  |        |     |         | GILRO (FO)                                                               |     |         | 124.43 / 19.23                                                              |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                   |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                | MAG VAR: 13E EPOCH YEAR: 2020 |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 2. PROFILE STARTS AT ROSTE                                                                                                                                                                                                                                                             |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 3. FAC: 125.77 FAF: OMSEE DIST FAF TO MAP: 5.36 THLD: 5.36                                                                                                                                                                                                                             |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 4. MIN. ALT: ROSTE 2300, OMSEE 1800                                                                                                                                                                                                                                                    |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                         |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 6. MIN GS INCPT: 1800 GS ALT AT: OMSEE 1800 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                              |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 57.0 34:1 IS CLEAR                                                                                                                                                                                                                                              |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 8. MSA FROM: RW12L 5700                                                                                                                                                                                                                                                                |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                               |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         | ALTERNATE: N A                                                              |                                 |         | STANDARD                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                        |        | A   |         |                                                                          | B   |         |                                                                             | C                               |         |                                                                                         | D        |         |                                                                                                                                                                                                                                                                                                                                                                                                | E                             |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                        | DH/MDA | VIS | HAT/HAA | DH/MDA                                                                   | VIS | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                                  | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                         | VIS                           | HAT/HAA                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                 | 294    | 3/4 | 250     | 294                                                                      | 3/4 | 250     | 294                                                                         | 3/4                             | 250     | 294                                                                                     | 3/4      | 250     |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                           | 341    | 1   | 297     | 341                                                                      | 1   | 297     | 341                                                                         | 1                               | 297     | 341                                                                                     | 1        | 297     |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                               | 520    | 1   | 476     | 520                                                                      | 1   | 476     | 520                                                                         | 1 3/8                           | 476     | 520                                                                                     | 1 3/8    | 476     |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CITY AND STATE<br>SAN JOSE, CA                                                                                                                                                                                                                                                         |        |     |         | ELEVATION: 62 TDZE: 44<br>AIRPORT NAME:<br>NORMAN Y MINETA SAN JOSE INTL |     |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) Y RWY 12L, AMDT 3A<br>21 JULY 2016 |          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                               | SUP:<br>AMDT: 3<br>DATED 03/05/2015 |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSJC          |
| RUNWAY                                   | RW12L         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Y             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W12B          |
| LTP/FTP LATITUDE                         | 372220.2515N  |
| LTP/FTP LONGITUDE                        | 1215613.9700W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00211        |
| FPAP LATITUDE                            | 372108.1260N  |
| FPAP LONGITUDE                           | 1215454.9155W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00057.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>6AF80EF0  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00115 |
| FPAP ORTHOMETRIC HEIGHT | +00115 |

QUALITY  
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|                                    |                                                                     |                          |                                                                                                 |                   |
|------------------------------------|---------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>SAN JOSE, CA | ELEVATION: 62<br>AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL | TDZE: 44<br><br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) Y RWY 12L, AMDT 3A<br><br>21 JULY 2016 | SUP:              |
|                                    |                                                                     |                          |                                                                                                 | AMDT: 3           |
|                                    |                                                                     |                          |                                                                                                 | DATED: 03/05/2015 |

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                                               |                        |                                         |     |                                                                                                        |            |       |                                                                                                                                                                                                                            |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |    |
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---|-------|----|----|-----|-------|--|--|--|--|--|----------|--|----|--|-----|-------|----|----|--|-------|--|--|---|--|--|----------|--|----|------------|----------|-----------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|--------|-----------------------|------------------------|------------------------|------------------|-------|------------|-------------|-------|----|
| <div style="margin-bottom: 10px;">ARINC SUMMARY - KSJC</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td></td><td>010</td><td>ROSTE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 02300</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>OMSEE</td><td>TF</td><td>FB</td><td>1.0</td><td>125.7</td><td></td><td></td><td></td><td>RW12L</td><td></td><td>AA 01800</td><td></td><td>E F</td></tr> <tr><td></td><td>030</td><td>RW12L</td><td>TF</td><td>FO</td><td>0.3</td><td>125.8</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00095</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>125.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 00294</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>COKOR</td><td>DF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td></td><td>060</td><td>GILRO</td><td>TF</td><td>FO</td><td>1.0</td><td>124.4</td><td></td><td></td><td></td><td></td><td></td><td>AA 04600</td><td></td><td>EY</td></tr> <tr><td></td><td>070</td><td>GILRO</td><td>HM</td><td>FO</td><td></td><td>304.4</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04600</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                        | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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                                                                                                                                                                                                                                                                                                                        |                                       | E I                        |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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                                                                                                                                                                                                                                                                                                                        |                                       | E F                        |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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                                                                                                                                                                                                                                                                                                                        |                                       | GY M                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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                                                                                                                                                                                                                                                                                                                        |                                       | E                          |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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                                                                                                                                                                                                                                                                                                                        |                                       | EY                         |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| GILRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| COKOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| OMSEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| ROSTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                                        | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                        |     |                                                                                                        |            |       |                                                                                                                                                                                                                            |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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| RW12L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N372220.25            | W1215613.97                                                                                   | 00038                  | 57                                      |     |                                                                                                        |            |       |                                                                                                                                                                                                                            |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     | 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| CITY AND STATE<br><b>SAN JOSE, CA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | ELEVATION: <b>62</b> <b>TDZE: 44</b><br>AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                        | FACILITY IDENTIFIER:<br><br><b>RNAV</b> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) Y RWY 12L, AMDT 3A</b><br><br>21 JULY 2016 |            |       | <div style="text-align: right; color: green; font-weight: bold; font-size: small;">QUALITY</div> SUP: <b>4</b><br>AMDT: <span style="color: green; font-weight: bold;">CHECKED</span> <b>3</b><br>DATED: <b>03/05/2015</b> |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |    |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------|---------|---------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------|-----|---------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                           |        |                               |         |                     |     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                | <b>MISSED APPROACH</b> |         |                  |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | TO                            |         | COURSE AND DISTANCE |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTITUDE                               |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW12R<br><br>CLIMB TO 4600 DIRECT HIVAK AND ON TRACK 123.87 TO GILRO AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, LT, 124.54 INBOUND.<br>CHART FAS OBST: 252 TWR 372337N/1215818W<br>DISTANCE TO THLD FROM 252 HAT: 0.45 NM.<br>CHART VDP AT 1.28 NM TO RW12R*<br>*LNAV ONLY.<br>WAAS CHANNEL # 90106<br>REFERENCE PATH ID: W12A<br>LTP HAE: -21.1 M |                        |         |                  |     |         |  |
| ARTAQ (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | SUNNE (FB)                    |         | 125.80 / 2.00       |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 1800                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| SUNNE (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | RW12R (MAP) (FO)              |         | 125.77 / 5.35       |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| RW12R (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 246 MSL                       |         | 125.77              |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| 246 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | HIVAK (FB)                    |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 4600                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| HIVAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | GILRO (FO)                    |         | 123.87 / 17.04      |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT ARTAQ<br>3. FAC: 125.77 FAF: SUNNE DIST FAF TO MAP: 5.35 THLD: 5.35<br>4. MIN. ALT: ARTAQ 1800, SUNNE 1800<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 1800 GS ALT AT: SUNNE 1800 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 58.0 34:1 IS CLEAR<br>8. MSA FROM: RW12R 5700 |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                | MAG VAR: 13E           |         | EPOCH YEAR: 2020 |     |         |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTERNATE: N A                         |         | STANDARD                                                                                                                                                                                                                                                                                                                                                                                       |                        |         |                  |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | A                             |         |                     | B   |                                                                                                                                                                                                                                                                                                                                                                      |        | C                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                | D                      |         |                  | E   |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DH/MDA | VIS                           | HAT/HAA | DH/MDA              | VIS | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                         | VIS                    | HAT/HAA | DH/MDA           | VIS | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 246    | 1/2                           | 200     | 246                 | 1/2 | 200                                                                                                                                                                                                                                                                                                                                                                  | 246    | 1/2                                    | 200     | 246                                                                                                                                                                                                                                                                                                                                                                                            | 1/2                    | 200     |                  |     |         |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 371    | 5/8                           | 325     | 371                 | 1   | 325                                                                                                                                                                                                                                                                                                                                                                  | 371    | 1                                      | 325     | 371                                                                                                                                                                                                                                                                                                                                                                                            | 1                      | 325     |                  |     |         |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 520    | 1/2                           | 474     | 520                 | 1/2 | 474                                                                                                                                                                                                                                                                                                                                                                  | 520    | 1                                      | 474     | 520                                                                                                                                                                                                                                                                                                                                                                                            | 1                      | 474     |                  |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| SIDESTEP 12L                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 520    | 1                             | 476     | 520                 | 1   | 476                                                                                                                                                                                                                                                                                                                                                                  | 520    | 1 1/2                                  | 476     | 520                                                                                                                                                                                                                                                                                                                                                                                            | 2                      | 476     |                  |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2)                                                                                                                                                                |        |                               |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         |                  |     |         |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | ELEVATION: 62                 |         | TDZE: 12R 46        |     | FACILITY IDENTIFIER: RNAV                                                                                                                                                                                                                                                                                                                                            |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         | SUP:             |     |         |  |
| SAN JOSE, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | AIRPORT NAME:                 |         | TDZE: 12L 44        |     |                                                                                                                                                                                                                                                                                                                                                                      |        | RNAV (GPS) Y RWY 12R, AMDT 3A          |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         | AMDT: 3          |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | NORMAN Y MINETA SAN JOSE INTL |         |                     |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 21 JULY 2016                           |         |                                                                                                                                                                                                                                                                                                                                                                                                |                        |         | DATED 03/05/2015 |     |         |  |

QUALITY  
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 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 MILE AND LNAV CATS C/D VISIBILITY TO 1 3/8 MILE.



|                                       |                                                                        |                              |                                     |                                                                                                |                          |
|---------------------------------------|------------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: 62<br>AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> | TDZE: 12R 46<br>TDZE: 12L 44 | FACILITY IDENTIFIER:<br><b>RNAV</b> | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><b>RNAV (GPS) Y RWY 12R, AMDT 3A</b><br>21 JULY 2016 | SUP:                     |
|                                       |                                                                        |                              |                                     |                                                                                                | AMDT: <b>3</b>           |
|                                       |                                                                        |                              |                                     |                                                                                                | DATED: <b>03/05/2015</b> |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSJC          |
| RUNWAY                                   | RW12R         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Y             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W12A          |
| LTP/FTP LATITUDE                         | 372215.7695N  |
| LTP/FTP LONGITUDE                        | 1215620.5710W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00211        |
| FPAP LATITUDE                            | 372103.5700N  |
| FPAP LONGITUDE                           | 1215501.4375W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00058.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |

|                      |          |
|----------------------|----------|
| <u>CRC REMAINDER</u> | 6B0170EE |
|----------------------|----------|

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00115 |
| FPAP ORTHOMETRIC HEIGHT | +00115 |

QUALITY  
6  
CHECKED

|                                    |                                                                     |                              |                                     |                                                                                                 |                   |
|------------------------------------|---------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>SAN JOSE, CA | ELEVATION: 62<br>AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL | TDZE: 12R 46<br>TDZE: 12L 44 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) Y RWY 12R, AMDT 3A<br><br>21 JULY 2016 | SUP:              |
|                                    |                                                                     |                              |                                     |                                                                                                 | AMDT: 3           |
|                                    |                                                                     |                              |                                     |                                                                                                 | DATED: 03/05/2015 |

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                        |                        |                  |                                                                                                                                                              |            |            |       |             |                                                                                |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - Ksjc</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td></td><td>010</td><td>ARTAQ</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 01800</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>SUNNE</td><td>TF</td><td>FB</td><td>1.0</td><td>125.8</td><td></td><td></td><td></td><td>RW12R</td><td></td><td>AA 01800</td><td></td><td>E F</td></tr> <tr><td></td><td>030</td><td>RW12R</td><td>TF</td><td>FO</td><td>0.3</td><td>125.8</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00096</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>125.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 00246</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>HIVAK</td><td>DF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td></td><td>060</td><td>GILRO</td><td>TF</td><td>FO</td><td>1.0</td><td>123.9</td><td></td><td></td><td></td><td></td><td></td><td>AA 04600</td><td></td><td>EY</td></tr> <tr><td></td><td>070</td><td>GILRO</td><td>HM</td><td>FO</td><td></td><td>124.5</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04600</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                           | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |  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                                                                                                                                           |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| ARTAQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N372748.04            | W1220225.34            |                        |                  |                                                                                                                                                              |            |            |       |             |                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| HIVAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N371514.72            | W1214839.89            |                        |                  |                                                                                                                                                              |            |            |       |             |                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| SUNNE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N372617.63            | W1220046.10            |                        |                  |                                                                                                                                                              |            |            |       |             |                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |                                                                                                                                                              |            |            |       |             |                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| RW12R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N372215.77            | W1215620.57            | 00038                  | 58.0             |                                                                                                                                                              |            |            |       |             |                                                                                |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| CITY AND STATE<br><div style="text-align: center;"><b>SAN JOSE, CA</b></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                        |                        |                  | ELEVATION: <b>62</b> <b>TDZE: 12R 46</b><br>AIRPORT NAME: <b>TDZE: 12L 44</b><br><div style="text-align: center;"><b>NORMAN Y MINETA SAN JOSE INTL</b></div> |            |            |       |             | FACILITY IDENTIFIER:<br><br><div style="text-align: center;"><b>RNAV</b></div> |                | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>RNAV (GPS) Y RWY 12R, AMDT 3A</b></div> <div style="text-align: center;">21 JULY 2016</div>                                                                                                                                                                                        |                                       |                            | SUP:<br><hr/> AMDT: <b>3</b><br><hr/> DATED: <b>03/05/2015</b> |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |

QUALITY  
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------|---------------------------------------------------------------------|------|------------------------------------------------------------------------|--------|------------------------------|---------|---------------------------------------------------------------------------------------------|-------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------|--|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |      |         |                                                                     |      | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |                  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |      |         | TO                                                                  |      |                                                                        |        | COURSE AND DISTANCE          |         |                                                                                             |       | ALTITUDE |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW30L<br><br>CLIMB TO 2300 DIRECT ARTAQ AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 125.72 INBOUND.<br>CHART FAS OBST: 373 BLDG 371938N/1215321W<br>DISTANCE TO THLD FROM 200 HAT: 0.46 NM.<br>CHART VDP AT 1.60 NM TO RW30L*<br>*LNAV ONLY.<br>WAAS CHANNEL # 97306<br>REFERENCE PATH ID: W30A<br>CHART CIRCLING ICON<br>LTP HAE: -15.2 M |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| BORED (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |      |         | SWIGS (FB)                                                          |      |                                                                        |        | 221.02 / 10.36               |         |                                                                                             |       | 5200     |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| SWIGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |         | KLIDE (FB)                                                          |      |                                                                        |        | 220.93 / 4.44                |         |                                                                                             |       | 4000     |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| KLIDE (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |      |         | HIVAK (FB)                                                          |      |                                                                        |        | 305.94 / 7.15                |         |                                                                                             |       | 2700     |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| HIVAK (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |      |         | FORUL/2.80 NM TO RW30L (FB)                                         |      |                                                                        |        | 305.89 / 5.33                |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| FORUL/2.80 NM TO RW30L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |      |         | RW30L (MAP) (FO)                                                    |      |                                                                        |        | 305.89 / 2.80                |         |                                                                                             |       |          |        | 2300                                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| RW30L (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |      |         | 257 MSL                                                             |      |                                                                        |        | 305.89                       |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| 257 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |      |         | ARTAQ (FO)                                                          |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT KLIDE<br>3. FAC: <u>305.89</u> FAF: <u>HIVAK</u> DIST FAF TO MAP: <u>8.13</u> THLD: <u>8.13</u><br>4. MIN. ALT: <u>KLIDE 4000, HIVAK 2700, FORUL/2.80 NM TO RW30L 1000*</u><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>2700</u> GS ALT AT: <u>HIVAK 2700</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>54.4</u> 34:1 IS CLEAR<br>8. MSA FROM: <u>RW30L 5600</u> |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         | MAG VAR: 13E                                                                                                                                                                                                                                                                                                                                                         |  |  |  | EPOCH YEAR: 2020 |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        | ALTERNATE: N A               |         | STANDARD                                                                                    |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | A    |         |                                                                     | B    |                                                                        |        | C                            |         |                                                                                             | D     |          |        | E                                                                                                                                                                                                                                                                                                                                                                                         |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DH/MDA | VIS  | HAT/HAA | DH/MDA                                                              | VIS  | HAT/HAA                                                                | DH/MDA | VIS                          | HAT/HAA | DH/MDA                                                                                      | VIS   | HAT/HAA  | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                                       | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 257    | 2400 | 200     | 257                                                                 | 2400 | 200                                                                    | 257    | 2400                         | 200     | 257                                                                                         | 2400  | 200      |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 540    | 6000 | 483     | 540                                                                 | 6000 | 483                                                                    | 540    | 6000                         | 483     | 540                                                                                         | 6000  | 483      |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 640    | 2400 | 583     | 640                                                                 | 2400 | 583                                                                    | 640    | 1 1/4                        | 583     | 640                                                                                         | 1 1/4 | 583      |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| SIDESTEP 30R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 640    | 1    | 585     | 640                                                                 | 1    | 585                                                                    | 640    | 1                            | 585     | 640                                                                                         | 1     | 585      |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BORED ON V301 SOUTHEAST BOUND.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).                                                                                                                                                                                                                                                 |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| CITY AND STATE<br><br>SAN JOSE, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |      |         | ELEVATION: 62<br>AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL |      | TDZE: 30L 57<br>TDZE: 30R 55                                           |        | FACILITY IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) Y RWY 30L, AMDT 3A<br><br>21 JULY 2016 |       |          |        | SUP:                                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        | AMDT: 3                                                                                                                                                                                                                                                                                                                                                                                   |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |         |                                                                     |      |                                                                        |        |                              |         |                                                                                             |       |          |        | DATED 03/05/2015                                                                                                                                                                                                                                                                                                                                                                          |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |

QUALITY  
 6  
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**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSJC          |
| RUNWAY                                   | RW30L         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Y             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30A          |
| LTP/FTP LATITUDE                         | 372122.4530N  |
| LTP/FTP LONGITUDE                        | 1215522.1280W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00152        |
| FPAP LATITUDE                            | 372229.5895N  |
| FPAP LONGITUDE                           | 1215635.7275W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00054.4       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0168          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |

**CRC REMAINDER**

FC66CCC1

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00173 |
| FPAP ORTHOMETRIC HEIGHT | +00173 |

QUALITY  
6  
CHECKED

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

AIRPORT NAME:

NORMAN Y MINETA SAN JOSE INTL

 TDZE: 30L 57  
TDZE: 30R 55

 FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 30L, AMDT 3A

21 JULY 2016

SUP:

AMDT: 3

DATED: 03/05/2015

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                                                                                                                       |                        |                                         |     |                                                                                                        |            |       |                                                                |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - Ksjc</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>BORED</td><td>010</td><td>BORED</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>BORED</td><td>020</td><td>SWIGS</td><td>TF</td><td>FB</td><td>1.0</td><td>221.0</td><td></td><td></td><td></td><td></td><td></td><td>AA 05200</td><td></td><td>E</td></tr> <tr><td>BORED</td><td>030</td><td>KLIDE</td><td>TF</td><td>FB</td><td>1.0</td><td>220.9</td><td></td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>EE</td></tr> <tr><td></td><td>010</td><td>KLIDE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04000</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>HIVAK</td><td>TF</td><td>FB</td><td>1.0</td><td>305.9</td><td></td><td></td><td></td><td>RW30L</td><td></td><td>AA 02700</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>FORUL</td><td>TF</td><td>FB</td><td>0.3</td><td>305.9</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 01000 GS 01003</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW30L</td><td>TF</td><td>FO</td><td>0.3</td><td>305.9</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00111</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>305.9</td><td></td><td></td><td></td><td></td><td></td><td>AA 00257</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>ARTAQ</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 02300</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>ARTAQ</td><td>HM</td><td>FO</td><td></td><td>125.7</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 02300</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">POINT NAME</th> <th style="text-align: left;">LATITUDE</th> <th style="text-align: left;">LONGITUDE</th> </tr> </thead> <tbody> <tr><td>BORED</td><td>N371834.16</td><td>W1212748.06</td></tr> <tr><td>ARTAQ</td><td>N372748.04</td><td>W1220225.34</td></tr> <tr><td>FORUL</td><td>N371915.83</td><td>W1215303.45</td></tr> <tr><td>HIVAK</td><td>N371514.72</td><td>W1214839.89</td></tr> <tr><td>KLIDE</td><td>N370951.03</td><td>W1214246.98</td></tr> <tr><td>SWIGS</td><td>N371228.18</td><td>W1213817.60</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">RUNWAYS</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">RUNWAY</th> <th style="text-align: left;">THRESHOLD<br/>LATITUDE</th> <th style="text-align: left;">THRESHOLD<br/>LONGITUDE</th> <th style="text-align: left;">THRESHOLD<br/>ELEVATION</th> <th style="text-align: left;">PROCEDURE<br/>TCH</th> </tr> </thead> <tbody> <tr> <td>RW30L</td> <td>N372122.45</td> <td>W1215522.13</td> <td>00057</td> <td>54.4</td> </tr> </tbody> </table> |                       |                                                                                                                       |                        |                                         |     |                                                                                                        |            |       |                                                                |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE | BORED | 010 | BORED | IF | FB |  |  |  |  |  |  |  |  |  | E A | BORED | 020 | SWIGS | TF | FB | 1.0 | 221.0 |  |  |  |  |  | AA 05200 |  | E | BORED | 030 | KLIDE | TF | FB | 1.0 | 220.9 |  |  |  |  |  | AA 04000 |  | EE |  | 010 | KLIDE | IF | FB |  |  |  |  |  |  |  | AA 04000 |  | E I |  | 020 | HIVAK | TF | FB | 1.0 | 305.9 |  |  |  | RW30L |  | AA 02700 |  | E F |  | 021 | FORUL | TF | FB | 0.3 | 305.9 |  | 3.00 |  |  |  | AA 01000 GS 01003 |  | E S |  | 030 | RW30L | TF | FO | 0.3 | 305.9 |  | 3.00 |  |  |  | AT 00111 |  | GY M |  | 040 |  | CA | FB |  | 305.9 |  |  |  |  |  | AA 00257 |  | M |  | 050 | ARTAQ | DF | FO |  |  |  |  |  |  |  | AA 02300 |  | EY |  | 060 | ARTAQ | HM | FO |  | 125.7 |  |  | R |  |  | AA 02300 |  | EE | POINT NAME | LATITUDE | LONGITUDE | BORED | N371834.16 | W1212748.06 | ARTAQ | N372748.04 | W1220225.34 | FORUL | N371915.83 | W1215303.45 | HIVAK | N371514.72 | W1214839.89 | KLIDE | N370951.03 | W1214246.98 | SWIGS | N371228.18 | W1213817.60 | RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH | RW30L | N372122.45 | W1215522.13 | 00057 | 54.4 |
| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WPT<br>SEQ            | WPT<br>NAME                                                                                                           | LEG<br>TYPE            | FB/FO                                   | RNP | MAG<br>CRS                                                                                             | REC<br>NAV | ANGLE | TURN<br>DIR                                                    | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| BORED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 010                   | BORED                                                                                                                 | IF                     | FB                                      |     |                                                                                                        |            |       |                                                                |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |  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| BORED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 020                   | SWIGS                                                                                                                 | TF                     | FB                                      | 1.0 | 221.0                                                                                                  |            |       |                                                                |               |                | AA 05200                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| BORED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 030                   | KLIDE                                                                                                                 | TF                     | FB                                      | 1.0 | 220.9                                                                                                  |            |       |                                                                |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |  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                                                       | 010                   | KLIDE                                                                                                                 | IF                     | FB                                      |     |                                                                                                        |            |       |                                                                |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |  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                                                       | 020                   | HIVAK                                                                                                                 | TF                     | FB                                      | 1.0 | 305.9                                                                                                  |            |       |                                                                | RW30L         |                | AA 02700                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |            |            |             |             |       |     |        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| ARTAQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FORUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| HIVAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| SWIGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N371228.18            | W1213817.60                                                                                                           |                        |                                         |     |                                                                                                        |            |       |                                                                |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                                                                | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                        |     |                                                                                                        |            |       |                                                                |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| RW30L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N372122.45            | W1215522.13                                                                                                           | 00057                  | 54.4                                    |     |                                                                                                        |            |       |                                                                |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
| CITY AND STATE<br><b>SAN JOSE, CA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | ELEVATION: <b>62</b> <b>TDZE: 30L 57</b><br>AIRPORT NAME: <b>TDZE: 30R 55</b><br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                        | FACILITY IDENTIFIER:<br><br><b>RNAV</b> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) Y RWY 30L, AMDT 3A</b><br><br>21 JULY 2016 |            |       | SUP:<br><hr/> AMDT: <b>3</b><br><hr/> DATED: <b>03/05/2015</b> |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |       |            |             |       |      |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|------------------------------------------------------------------------------|-------|---------|------------------------------------------------------------------------|------------------------------|---------|--------|-------|---------------------------------------------------------------------------------------------|--------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------|--|------------------|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |       |         |                                                                              |       |         | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |          |  |                  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |         | TO                                                                           |       |         |                                                                        | COURSE AND DISTANCE          |         |        |       |                                                                                             |        | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW30R<br><br>CLIMB TO 2300 DIRECT ROSTE AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 125.76 INBOUND.<br>CHART FAS OBST: 373 BLDG 371938N/1215321W<br>DISTANCE TO THLD FROM 200 HAT: 0.46 NM.<br>CHART VDP AT 1.61 NM TO RW30R*<br>*LNAV ONLY.<br>WAAS CHANNEL # 72901<br>REFERENCE PATH ID: W30B<br>CHART CIRCLING ICON.<br>LTP HAE: -15.8 M |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| BORED (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |       |         | SWIGS (FB)                                                                   |       |         |                                                                        | 221.02 / 10.36               |         |        |       |                                                                                             |        | 5200     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| SWIGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |       |         | KLIDE (FB)                                                                   |       |         |                                                                        | 220.93 / 4.44                |         |        |       |                                                                                             |        | 4000     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| KLIDE (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |       |         | KIRVE (FB)                                                                   |       |         |                                                                        | 306.65 / 7.00                |         |        |       |                                                                                             |        | 2500     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| KIRVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |       |         | COKOR (FB)                                                                   |       |         |                                                                        | 306.59 / 2.34                |         |        |       |                                                                                             |        | 2000     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| COKOR (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |       |         | HILUD/2.70 NM TO RW30R (FB)                                                  |       |         |                                                                        | 305.87 / 3.23                |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| HILUD/2.70 NM TO RW30R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |       |         | RW30R (MAP) (FO)                                                             |       |         |                                                                        | 305.87 / 2.70                |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT KLIDE<br>3. FAC: <u>305.87</u> FAF: <u>COKOR</u> DIST FAF TO MAP: <u>5.93</u> THLD: <u>5.93</u><br>4. MIN. ALT: <u>KLIDE 4000, KIRVE 2500, COKOR 2000, HILUD/2.70 NM TO RW30R 960*</u><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>2000</u> GS ALT AT: <u>COKOR 2000</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS CLEAR<br>8. MSA FROM: <u>RW30R 5600</u> |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            | MAG VAR: 13E                                                                                                                                                                                                                                                                                                                                                         |  |  |          |  | EPOCH YEAR: 2020 |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |  |  | STANDARD |  |                  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | A     |         |                                                                              | B     |         |                                                                        | C                            |         |        | D     |                                                                                             |        | E        |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DH/MDA | VIS   | HAT/HAA | DH/MDA                                                                       | VIS   | HAT/HAA | DH/MDA                                                                 | VIS                          | HAT/HAA | DH/MDA | VIS   | HAT/HAA                                                                                     | DH/MDA | VIS      | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 255    | 3/4   | 200     | 255                                                                          | 3/4   | 200     | 255                                                                    | 3/4                          | 200     | 255    | 3/4   | 200                                                                                         |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 541    | 1 5/8 | 486     | 541                                                                          | 1 5/8 | 486     | 541                                                                    | 1 5/8                        | 486     | 541    | 1 5/8 | 486                                                                                         |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 640    | 1     | 585     | 640                                                                          | 1     | 585     | 640                                                                    | 1 3/4                        | 585     | 640    | 1 3/4 | 585                                                                                         |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 640    | 1     | 578     | 700                                                                          | 1     | 638     | 700                                                                    | 1 3/4                        | 638     | 700    | 2     | 638                                                                                         |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BORED ON V301 SOUTHEAST BOUND.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).                                                                                                                                                                                                                                                            |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
| CITY AND STATE<br><br>SAN JOSE, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |       |         | ELEVATION: 62 TDZE: 55<br>AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL |       |         |                                                                        | FACILITY IDENTIFIER:<br>RNAV |         |        |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) Y RWY 30R, AMDT 3A<br><br>21 JULY 2016 |        |          |         | SUP:                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         | AMDT: 3                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         |                                                                              |       |         |                                                                        |                              |         |        |       |                                                                                             |        |          |         | DATED 04/30/2015                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |                  |  |  |  |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

| FROM        | TO         | COURSE AND DISTANCE | ALTITUDE |
|-------------|------------|---------------------|----------|
| RW30R (MAP) | 255 MSL    | 305.87              |          |
| 255 MSL     | ROSTE (FO) |                     | 2300     |

QUALITY  
6  
CHECKED

CITY AND STATE  
SAN JOSE, CA

ELEVATION: 62 TDZE: 55  
AIRPORT NAME:  
NORMAN Y MINETA SAN JOSE INTL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) Y RWY 30R, AMDT 3A  
21 JULY 2016

SUP:  
AMDT: 3  
DATED: 04/30/2015

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSJC          |
| RUNWAY                                   | RW30R         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Y             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30B          |
| LTP/FTP LATITUDE                         | 372127.0045N  |
| LTP/FTP LONGITUDE                        | 1215515.6015W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00158        |
| FPAP LATITUDE                            | 372234.1410N  |
| FPAP LONGITUDE                           | 1215629.2015W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00055.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0176          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |
| <br><u>CRC REMAINDER</u>                 | <br>01C7AC8B  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00168 |
| FPAP ORTHOMETRIC HEIGHT | +00168 |

QUALITY  
6  
CHECKED

|                                    |                                                                     |          |                                     |                                                                                                 |                   |
|------------------------------------|---------------------------------------------------------------------|----------|-------------------------------------|-------------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>SAN JOSE, CA | ELEVATION: 62<br>AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL | TDZE: 55 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) Y RWY 30R, AMDT 3A<br><br>21 JULY 2016 | SUP:              |
|                                    |                                                                     |          |                                     |                                                                                                 | AMDT: 3           |
|                                    |                                                                     |          |                                     |                                                                                                 | DATED: 04/30/2015 |

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSJC

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| BORED      | 010        | BORED       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| BORED      | 020        | SWIGS       | TF          | FB    | 1.0 | 221.0      |            |       |             |               |                | AA 05200                           |                                       | E                          |
| BORED      | 030        | KLIDE       | TF          | FB    | 1.0 | 220.9      |            |       |             |               |                | AA 04000                           |                                       | EE B                       |
|            | 010        | KLIDE       | IF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E I                        |
|            | 011        | KIRVE       | TF          | FB    | 1.0 | 306.7      |            |       |             |               |                | AA 02500                           |                                       | E                          |
|            | 020        | COKOR       | TF          | FB    | 1.0 | 306.6      |            |       |             | RW30R         |                | AA 02000                           |                                       | E F                        |
|            | 021        | HILUD       | TF          | FB    | 0.3 | 305.9      |            | 3.00  |             |               |                | AA 00960 GS 00970                  |                                       | E S                        |
|            | 030        | RW30R       | TF          | FO    | 0.3 | 305.9      |            | 3.00  |             |               |                | AT 00110                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 305.9      |            |       |             |               |                | AA 00255                           |                                       | M                          |
|            | 050        | ROSTE       | DF          | FO    |     |            |            |       |             |               |                | AA 02300                           |                                       | EY                         |
|            | 060        | ROSTE       | HM          | FO    |     | 125.8      |            |       | R           |               |                | AA 02300                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| BORED      | N371834.16 | W1212748.06 |
| COKOR      | N371658.57 | W1215021.83 |
| HILUD      | N371924.90 | W1215301.87 |
| KIRVE      | N371511.55 | W1214827.78 |
| KLIDE      | N370951.03 | W1214246.98 |
| ROSTE      | N372846.10 | W1220317.91 |
| SWIGS      | N371228.18 | W1213817.60 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW30R  | N372127.00            | W1215515.60            | 00055                  | 55               |

QUALITY  
15  
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|                                       |                                                                                               |                                            |                                                                                                        |                          |
|---------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b> <b>TDZE: 55</b><br>AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) Y RWY 30R, AMDT 3A</b><br><br>21 JULY 2016 | SUP:                     |
|                                       |                                                                                               |                                            |                                                                                                        | AMDT: <b>3</b>           |
|                                       |                                                                                               |                                            |                                                                                                        | DATED: <b>04/30/2015</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------|---------|----------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|------------------|--------|-----|---------|--|
| <b>RNAV (RNP) - STANDARD,<br/>INSTRUMENT APPROACH PROCEDURE,<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                             |         |                                  |                               | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 | <b>MISSED APPROACH</b> |                  |        |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | TO                          |         | COURSE AND DISTANCE              |                               |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE                               |                | <b>RNP: DA</b><br><br>CLIMB TO 4600 ON TRACK 125.80 TO COKOR ON TRACK 124.43 TO GILRO AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, LT, 124.54 INBOUND.<br>DISTANCE TO THLD FROM 341 HAT: 0.89 NM.<br>ROUTE TYPE QUALIFIER 1: F<br>ROUTE TYPE QUALIFIER 2: S<br>ROUTE TYPE: A, H<br>#TCH 94.6 MSL (DO NOT CHART)<br>CHART MINIMUM 4500 AT WADVA<br>CHART MANDATORY 4000 AT HITIR. |                 |                        |                  |        |     |         |  |
| ARTAQ (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | OMSEE (TF) (FB) (RNP 1.00)  |         | 122.50 / 2.00                    |                               |                                                                                                                                                                                                                                                                                                                                                                      | 1800                                   |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| OMSEE (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | HINIR (TF) (RNP 1.00)       |         | 125.77 / 2.20                    |                               |                                                                                                                                                                                                                                                                                                                                                                      | 1100                                   |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| HITIR (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | ZORSA (TF) (FB) (RNP 1.00)  |         | 305.77 / 3.14                    |                               |                                                                                                                                                                                                                                                                                                                                                                      | 3000                                   |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| ZORSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | NIBUY (RF) (FB) (RNP 1.00)  |         | (2.23 NM RADIUS CW (CFBLQ))/4.48 |                               |                                                                                                                                                                                                                                                                                                                                                                      | 1800                                   |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| NIBUY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | HINIR (RF) (RNP 1.00)       |         | (2.22 NM RADIUS CW (CFBLF))/2.51 |                               |                                                                                                                                                                                                                                                                                                                                                                      | 1100                                   |                | MAG VAR: 13E      EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                                       |                 |                        |                  |        |     |         |  |
| WADVA (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | RERAE (TF) (FB) (RNP 1.00)  |         | 074.08 / 4.00                    |                               |                                                                                                                                                                                                                                                                                                                                                                      | 3500                                   |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT HINIR<br>3. FAC: <u>125.78</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____<br>4. MIN. ALT: <u>HINIR 1100</u><br>5. DIST TO THLD FROM OM: <u>3.16</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1100</u> GS ALT AT: <u>HINIR 1100</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>57.0</u> # <u>34:1 IS CLEAR</u><br>8. MSA FROM: <u>RW12L 5700</u> |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        | ALTERNATE: N A |                                                                                                                                                                                                                                                                                                                                                                                          | <b>STANDARD</b> |                        |                  |        |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | A                           |         | B                                |                               |                                                                                                                                                                                                                                                                                                                                                                      | C                                      |                |                                                                                                                                                                                                                                                                                                                                                                                          | D               |                        |                  | E      |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DH/MDA | VIS                         | HAT/HAA | DH/MDA                           | VIS                           | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA                                 | VIS            | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                                  | DH/MDA          | VIS                    | HAT/HAA          | DH/MDA | VIS | HAT/HAA |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| <b>AUTHORIZATION REQUIRED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| RNP 0.18 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 385    | 1 1/8                       | 341     | 385                              | 1 1/8                         | 341                                                                                                                                                                                                                                                                                                                                                                  | 385                                    | 1 1/8          | 341                                                                                                                                                                                                                                                                                                                                                                                      | 385             | 1 1/8                  | 341              |        |     |         |  |
| RNP 0.30 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 451    | 1 3/8                       | 407     | 451                              | 1 3/8                         | 407                                                                                                                                                                                                                                                                                                                                                                  | 451                                    | 1 3/8          | 407                                                                                                                                                                                                                                                                                                                                                                                      | 451             | 1 3/8                  | 407              |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 0C (32F) OR ABOVE 54C (130F).<br>CHART NOTE: GPS REQUIRED.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PLANVIEW NOTE ADJACENT TO WADVA IAF: RF REQUIRED.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                 |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      |                                        |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        |                  |        |     |         |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | ELEVATION: 62      TDZE: 44 |         |                                  | FACILITY IDENTIFIER: RNAV     |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        | SUP:             |        |     |         |  |
| SAN JOSE, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | AIRPORT NAME:               |         |                                  | NORMAN Y MINETA SAN JOSE INTL |                                                                                                                                                                                                                                                                                                                                                                      | RNAV (RNP) Z RWY 12L, AMDT 2A          |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        | AMDT: 2          |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                             |         |                                  |                               |                                                                                                                                                                                                                                                                                                                                                                      | 21 JULY 2016                           |                |                                                                                                                                                                                                                                                                                                                                                                                          |                 |                        | DATED 08/20/2015 |        |     |         |  |





|                                                                                             |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
|---------------------------------------------------------------------------------------------|-------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                           |                               |                     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                        |
| RNAV (RNP) - STANDARD,<br>INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33          |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| TERMINAL ROUTES, (CONT.):                                                                   |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| FROM                                                                                        | TO                            | COURSE AND DISTANCE | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |                                        |
| RERAE (IF)                                                                                  | NIBUY (TF) (FB) (RNP 1.00)    | 060.91 / 5.36       | 1800                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| HINIR (FAF)                                                                                 | RW12L (MAP) (TF) (FO)         | 125.78 / 3.16       |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| RW12L (MAP)                                                                                 | COKOR (TF) (FB) (RNP1.00)     | 125.80 / 7.11       |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| COKOR                                                                                       | GILRO (TF) (FO) (RNP1.00)     | 124.43 / 19.23      | 4600                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| NOTES, (CONT.):                                                                             |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART PLANVIEW NOTE ADJACENT TO HITIR: RF REQUIRED.                                         |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.                                 |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART SPEED ICON IN PLANVIEW AT ZORSA: MAX 210 KIAS.                                        |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CHART SPEED ICON IN PLANVIEW AT NIBUY: MAX 210 KIAS.                                        |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <div>QUALITY<br/>6<br/>CHECKED</div>                                                        |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| CITY AND STATE                                                                              | ELEVATION: 62                 | TDZE: 44            | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                 | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |
| SAN JOSE, CA                                                                                | AIRPORT NAME:                 |                     | RNAV                                                                                                                                                                                                                                                                                                                                                                 | RNAV (RNP) Z RWY 12L, AMDT 2A          |
|                                                                                             | NORMAN Y MINETA SAN JOSE INTL |                     |                                                                                                                                                                                                                                                                                                                                                                      | 21 JULY 2016                           |
|                                                                                             |                               |                     | SUP:                                                                                                                                                                                                                                                                                                                                                                 |                                        |
|                                                                                             |                               |                     | AMDT:                                                                                                                                                                                                                                                                                                                                                                | 2                                      |
|                                                                                             |                               |                     | DATED:                                                                                                                                                                                                                                                                                                                                                               | 08/20/2015                             |

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - Ksjc

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARTAQ      | 010        | ARTAQ       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| ARTAQ      | 020        | OMSEE       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 01800                           |                                       | E B                        |
| ARTAQ      | 030        | HINIR       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 01100                           |                                       | EE                         |
| HITIR      | 010        | HITIR       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           |                                       | E B                        |
| HITIR      | 020        | ZORSA       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03000                           | AB 210                                | E                          |
| HITIR      | 030        | NIBUY       | RF          | FB    | 1.0 |            |            |       | R           | CFBLQ         | 02.23          | AA 01800                           | AB 210                                | E                          |
| HITIR      | 040        | HINIR       | RF          | FB    | 1.0 |            |            |       | R           | CFBLF         | 02.22          | AA 01100                           |                                       | EE                         |
| WADVA      | 010        | WADVA       | IF          | FB    |     |            |            |       |             |               |                | AA 04500                           |                                       | E A                        |
| WADVA      | 020        | RERAE       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03500                           |                                       | E B                        |
| WADVA      | 030        | NIBUY       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 01800                           | AB 210                                | E                          |
| WADVA      | 040        | HINIR       | RF          | FB    | 1.0 |            |            |       | R           | CFBLF         | 02.22          | AA 01100                           |                                       | EE                         |
|            | 020        | HINIR       | IF          | FB    |     |            |            |       |             | RW12L         |                | AA 01100                           |                                       | E F                        |
|            | 030        | RW12L       | TF          | FO    | 0.3 |            |            | 3.00  |             |               |                | AT 00095                           |                                       | GY M                       |
|            | 040        | COKOR       | TF          | FB    | 1.0 |            |            |       |             |               |                |                                    |                                       | E M                        |
|            | 050        | GILRO       | TF          | FO    | 1.0 |            |            |       |             |               |                | AA 04600                           |                                       | EY                         |
|            | 060        | GILRO       | HM          | FO    |     | 124.5      |            |       | L           |               |                | AA 04600                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| GILRO      | N370246.62 | W1213406.76 |
| ARTAQ      | N372748.04 | W1220225.34 |
| CFBLF      | N372314.92 | W1220056.48 |
| CFBLQ      | N372314.81 | W1220056.44 |
| COKOR      | N371658.57 | W1215021.83 |
| HINIR      | N372442.95 | W1215850.56 |
| HITIR      | N371924.84 | W1220026.61 |
| NIBUY      | N372523.30 | W1220142.69 |
| OMSEE      | N372622.55 | W1220039.98 |
| RERAE      | N372354.18 | W1220810.83 |
| WADVA      | N372342.04 | W1221311.62 |
| ZORSA      | N372146.66 | W1220302.38 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
|--------|-----------------------|------------------------|------------------------|------------------|

QUALITY  
15  
CHECKED

|                                       |                                                       |                                            |                                            |                          |
|---------------------------------------|-------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b> TDZE: <b>44</b>                  | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                                            | <b>RNAV (RNP) Z RWY 12L, AMDT 2A</b>       | AMDT: <b>2</b>           |
|                                       |                                                       |                                            | 21 JULY 2016                               | DATED: <b>08/20/2015</b> |

|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |
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RW12L                      N372220.25                      W1215613.97                      00038                      57.0



|                                       |                                                       |                                         |                                                                                                        |                          |
|---------------------------------------|-------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b> <b>TDZE: 44</b>                  | FACILITY IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (RNP) Z RWY 12L, AMDT 2A</b><br><br>21 JULY 2016 | SUP:                     |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                                         |                                                                                                        | AMDT: <b>2</b>           |
|                                       |                                                       |                                         |                                                                                                        | DATED: <b>08/20/2015</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|----------------------------|---------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------|--------|-------------------------------------|----------|------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|---------------------------------------------------|--|--------------|--|--|--|--|--|------------------|--|--|--|--|--|
| <b>US DEPARTMENT OF TRANSPORTATION<br/>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |     |                            |                                                                                 |     | <b>RNAV (RNP) - STANDARD,<br/>INSTRUMENT APPROACH PROCEDURE,<br/>TITLE 14 CFR PART 97.33</b> |        |                                     |          |                                                                                                |     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.                          |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |     | TO                         |                                                                                 |     | COURSE AND DISTANCE                                                                          |        |                                     | ALTITUDE |                                                                                                |     | <b>RNP: DA</b><br><br>CLIMB TO 4600 ON TRACK 125.80 TO HOSBO AND ON TRACK 123.89 TO GILRO AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, LT, 124.54 INBOUND.<br>DISTANCE TO THLD FROM 334 HAT: 0.89 NM.<br>CHART MANDATORY 4000 AT HITIR.<br>ROUTE TYPE QUALIFIER 1: F<br>ROUTE TYPE QUALIFIER 2: S<br>ROUTE TYPE: A, H<br>#TCH 95.7 MSL (DO NOT CHART)<br>CHART MINIMUM 4500 AT WADVA. |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| ARTAQ (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     | SUNNE (TF) (FB) (RNP 1.00) |                                                                                 |     | 125.80 / 2.00                                                                                |        |                                     | 1800     |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| SUNNE (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |     | FOXAG (TF) (FB) (RNP 1.00) |                                                                                 |     | 125.77 / 2.20                                                                                |        |                                     | 1100     |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| HITIR (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |     | ZORSA (TF) (FB) (RNP 1.00) |                                                                                 |     | 305.77 / 3.14                                                                                |        |                                     | 3000     |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| ZORSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     | PUAKO (RF) (FB) (RNP 1.00) |                                                                                 |     | (2.17 NM RADIUS CW (CFBNV))/4.39                                                             |        |                                     | 1800     |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| PUAKO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     | FOXAG (RF) (FB) (RNP 1.00) |                                                                                 |     | (2.17 NM RADIUS CW (CFBNV))/2.42                                                             |        |                                     | 1100     |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT FOXAG<br>3. FAC: <u>125.78</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____<br>4. MIN. ALT: <b>FOXAG 1100</b><br>5. DIST TO THLD FROM OM: <u>3.15</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1100</u> GS ALT AT: <b>FOXAG</b> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>58.0</u> # <u>34:1</u> IS CLEAR<br>8. MSA FROM: <b>RW12R 5700</b> |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  | MAG VAR: 13E |  |  |  |  |  | EPOCH YEAR: 2020 |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          | ALTERNATE: N A                                                                                 |     | STANDARD                                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | A   |                            |                                                                                 | B   |                                                                                              |        | C                                   |          |                                                                                                | D   |                                                                                                                                                                                                                                                                                                                                                                                               |        | E   |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DH/MDA | VIS | HAT/HAA                    | DH/MDA                                                                          | VIS | HAT/HAA                                                                                      | DH/MDA | VIS                                 | HAT/HAA  | DH/MDA                                                                                         | VIS | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                                       | DH/MDA | VIS | HAT/HAA |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| AUTHORIZATION REQUIRED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| RNP 0.15 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 380    | 5/8 | 334                        | 380                                                                             | 5/8 | 334                                                                                          | 380    | 5/8                                 | 334      | 380                                                                                            | 5/8 | 334                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| RNP 0.30 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 486    | 1   | 440                        | 486                                                                             | 1   | 440                                                                                          | 486    | 1                                   | 440      | 486                                                                                            | 1   | 440                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 0C (32F) OR ABOVE 54C (130F).<br>CHART NOTE: GPS REQUIRED.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PLANVIEW NOTE ADJACENT TO WADVA IAF: RF REQUIRED.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                            |        |     |                            |                                                                                 |     |                                                                                              |        |                                     |          |                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                   |  |              |  |  |  |  |  |                  |  |  |  |  |  |
| CITY AND STATE<br><b>SAN JOSE, CA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |                            | ELEVATION: 62 TDZE: 46<br>AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |     |                                                                                              |        | FACILITY IDENTIFIER:<br><b>RNAV</b> |          | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><b>RNAV (RNP) Z RWY 12R, AMDT 3A</b><br>21 JULY 2016 |     |                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         | SUP:<br>AMDT: <b>3</b><br>DATED <b>08/20/2015</b> |  |              |  |  |  |  |  |                  |  |  |  |  |  |



|                                                                                             |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
|---------------------------------------------------------------------------------------------|-------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                           |                               |                     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                         |
| RNAV (RNP) - STANDARD,<br>INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33          |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| TERMINAL ROUTES, (CONT.):                                                                   |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| FROM                                                                                        | TO                            | COURSE AND DISTANCE | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |                                         |
| WADVA (IAF)                                                                                 | RERAE (TF) (FB) (RNP 1.00)    | 074.08 / 4.00       | 3500                                                                                                                                                                                                                                                                                                                                                                 |                                         |
| RERAE (IF)                                                                                  | PUAKO (TF) (FB) (RNP 1.00)    | 061.80 / 5.34       | 1800                                                                                                                                                                                                                                                                                                                                                                 |                                         |
| FOXAG (FAF)                                                                                 | RW12R (MAP) (TF) (FO)         | 125.78 / 3.15       |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| RW12R (MAP)                                                                                 | HOSBO (TF) (FB) (RNP1.00)     | 125.80 / 9.13       |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| HOSBO (TF)                                                                                  | GILRO (TF) (FO) (RNP1.00)     | 123.89 / 17.22      | 4600                                                                                                                                                                                                                                                                                                                                                                 |                                         |
| NOTES, (CONT.):                                                                             |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| CHART PLANVIEW NOTE ADJACENT TO HITIR (IF): RF REQUIRED.                                    |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.                                 |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| CHART SPEED ICON IN PLANVIEW AT ZORSA : MAX 210 KIAS.                                       |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| CHART SPEED ICON IN PLANVIEW AT PUAKO : MAX 210 KIAS.                                       |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| <div>QUALITY<br/>6<br/>CHECKED</div>                                                        |                               |                     |                                                                                                                                                                                                                                                                                                                                                                      |                                         |
| CITY AND STATE                                                                              | ELEVATION: 62                 | TDZE: 46            | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                 | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: |
| SAN JOSE, CA                                                                                | AIRPORT NAME:                 |                     | RNAV                                                                                                                                                                                                                                                                                                                                                                 | RNAV (RNP) Z RWY 12R, AMDT 3A           |
|                                                                                             | NORMAN Y MINETA SAN JOSE INTL |                     |                                                                                                                                                                                                                                                                                                                                                                      | 21 JULY 2016                            |
|                                                                                             |                               |                     | SUP:                                                                                                                                                                                                                                                                                                                                                                 |                                         |
|                                                                                             |                               |                     | AMDT:                                                                                                                                                                                                                                                                                                                                                                | 3                                       |
|                                                                                             |                               |                     | DATED:                                                                                                                                                                                                                                                                                                                                                               | 08/20/2015                              |

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KSJC

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ARTAQ      | 010        | ARTAQ       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| ARTAQ      | 020        | SUNNE       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 01800                           |                                       | E B                        |
| ARTAQ      | 030        | FOXAG       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 01100                           |                                       | EE                         |
| HITIR      | 010        | HITIR       | IF          | FB    |     |            |            |       |             |               |                | AT 04000                           |                                       | E B                        |
| HITIR      | 020        | ZORSA       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03000                           | AB 210                                | E                          |
| HITIR      | 030        | PUAKO       | RF          | FB    | 1.0 |            |            |       | R           | CFBNV         | 02.17          | AA 01800                           | AB 210                                | E                          |
| HITIR      | 040        | FOXAG       | RF          | FB    | 1.0 |            |            |       | R           | CFBNV         | 02.17          | AA 01100                           |                                       | EE                         |
| WADVA      | 010        | WADVA       | IF          | FB    |     |            |            |       |             |               |                | AA 04500                           |                                       | E A                        |
| WADVA      | 020        | RERAE       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03500                           |                                       | E B                        |
| WADVA      | 030        | PUAKO       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 01800                           | AB 210                                | E                          |
| WADVA      | 040        | FOXAG       | RF          | FB    | 1.0 |            |            |       | R           | CFBNV         | 02.17          | AA 01100                           |                                       | EE                         |
|            | 020        | FOXAG       | IF          | FB    |     |            |            |       |             | RW12R         |                | AA 01100                           |                                       | E F                        |
|            | 030        | RW12R       | TF          | FO    | 0.3 |            |            | 3.00  |             |               |                | AT 00096                           |                                       | GY M                       |
|            | 040        | HOSBO       | TF          | FB    | 1.0 |            |            |       |             |               |                |                                    |                                       | E M                        |
|            | 050        | GILRO       | TF          | FO    | 1.0 |            |            |       |             |               |                | AA 04600                           |                                       | EY                         |
|            | 060        | GILRO       | HM          | FO    |     | 124.5      |            |       | L           |               |                | AA 04600                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| GILRO      | N370246.62 | W1213406.76 |
| ARTAQ      | N372748.04 | W1220225.34 |
| CFBNV      | N372312.51 | W1220059.72 |
| FOXAG      | N372438.31 | W1215856.98 |
| HITIR      | N371924.84 | W1220026.61 |
| HOSBO      | N371522.80 | W1214848.71 |
| PUAKO      | N372518.19 | W1220142.33 |
| RERAE      | N372354.18 | W1220810.83 |
| SUNNE      | N372617.63 | W1220046.10 |
| WADVA      | N372342.04 | W1221311.62 |
| ZORSA      | N372146.66 | W1220302.38 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
|--------|-----------------------|------------------------|------------------------|------------------|

QUALITY  
15  
CHECKED

|                                       |                                                       |                 |                      |                                            |                          |
|---------------------------------------|-------------------------------------------------------|-----------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b>                                  | TDZE: <b>46</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                 | <b>RNAV</b>          | <b>RNAV (RNP) Z RWY 12R, AMDT 3A</b>       | AMDT: <b>3</b>           |
|                                       |                                                       |                 |                      | 21 JULY 2016                               | DATED: <b>08/20/2015</b> |

|                                                                                                                                                                                        |                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br><b>RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33 |                                                                                               |                                  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                      |
| RW12R                      N372215.77                      W1215620.57                      00038                      58.0                                                            |                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                      |
| <div>QUALITY<br/>15<br/>CHECKED</div>                                                                                                                                                  |                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|                                                                                                                                                                                        |                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|                                                                                                                                                                                        |                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|                                                                                                                                                                                        |                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                      |
| CITY AND STATE<br>SAN JOSE, CA                                                                                                                                                         | ELEVATION: 62                      TDZE: 46<br>AIRPORT NAME:<br>NORMAN Y MINETA SAN JOSE INTL | FACILITY IDENTIFIER:<br><br>RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br>RNAV (RNP) Z RWY 12R, AMDT 3A<br>21 JULY 2016                                                                                                                                                                                                                                                                          | SUP:<br>AMDT: 3<br>DATED: 08/20/2015 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------|------|------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|--------|-----|---------|--------------|--|------------------|--|
| <b>US DEPARTMENT OF TRANSPORTATION<br/>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                              |         | <b>RNAV (RNP) - STANDARD,<br/>INSTRUMENT APPROACH PROCEDURE,<br/>TITLE 14 CFR PART 97.33</b> |      |                              |        | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                             |      |                                     |        |     |         |              |  |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | TO                                                                           |         | COURSE AND DISTANCE                                                                          |      |                              |        | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |         | <b>RNP: DA</b><br><br>CLIMB TO 2300 ON TRACK 305.83 TO ARTAQ AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 125.72 INBOUND.<br>#TCH 111.3 MSL (DO NOT CHART)<br>DISTANCE TO THLD FROM 364 HAT: 0.97 NM.<br>CHART MANDATORY 7000 AT JILNA.<br>ROUTE TYPE: A, H<br>ROUTE TYPE QUALIFIER1: F<br>ROUTE TYPE QUALIFIER2: S<br>CHART MINIMUM AT 4000 AT KLIDE. |      |                                     |        |     |         |              |  |                  |  |
| JILNA (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | YADUT (TF) (FB) (RNP 1.00)                                                   |         | 100.90 / 6.62                                                                                |      |                              |        | 4800                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| YADUT (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | HEPAP (RF) (FB) (RNP 0.60)                                                   |         | (3.09 NM RADIUS CCW (CFBJT))/2.72                                                            |      |                              |        | 4000                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| HEPAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | FODPA (TF) (FB) (RNP 0.60)                                                   |         | 050.65 / 2.48                                                                                |      |                              |        | 3600                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| FODPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | JEGSA (TF) (FB) (RNP 0.60)                                                   |         | 050.70 / 2.66                                                                                |      |                              |        | 2800                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| JEGSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | WOXAR (RF) (FB) (RNP 0.50)                                                   |         | (2.10 NM RADIUS CCW (CFBKG))/3.85                                                            |      |                              |        | 1600                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT WOXAR<br>3. FAC: <u>305.86</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____<br>4. MIN. ALT: <b>WOXAR 1600</b><br>5. DIST TO THLD FROM OM: <u>4.67</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1600</u> GS ALT AT: <b>WOXAR 1600</b> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>54.4</u> # <u>34:1</u> IS CLEAR<br>8. MSA FROM: <b>RW30L 5600</b> |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         | MAG VAR: 13E |  | EPOCH YEAR: 2020 |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |         | <b>STANDARD</b>                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | A                                                                            |         | B                                                                                            |      | C                            |        | D                                                                                                                                                                                                                                                                                                                                                                    |         | E                                                                                                                                                                                                                                                                                                                                                                  |      |                                     |        |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DH/MDA | VIS                                                                          | HAT/HAA | DH/MDA                                                                                       | VIS  | HAT/HAA                      | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                             | VIS  | HAT/HAA                             | DH/MDA | VIS | HAT/HAA |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| <b>AUTHORIZATION REQUIRED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| RNP 0.15 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 421    | 4000                                                                         | 364     | 421                                                                                          | 4000 | 364                          | 421    | 4000                                                                                                                                                                                                                                                                                                                                                                 | 364     | 421                                                                                                                                                                                                                                                                                                                                                                | 4000 | 364                                 |        |     |         |              |  |                  |  |
| RNP 0.30 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 544    | 6000                                                                         | 487     | 544                                                                                          | 6000 | 487                          | 544    | 6000                                                                                                                                                                                                                                                                                                                                                                 | 487     | 544                                                                                                                                                                                                                                                                                                                                                                | 6000 | 487                                 |        |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1C (31F) OR ABOVE 54C (130F).<br>CHART NOTE: GPS REQUIRED.<br>CHART PLANVIEW NOTE ADJACENT TO JILNA IAF: RF REQUIRED.<br>CHART PLANVIEW NOTE AT JILNA: (RNP 0.50).<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                           |        |                                                                              |         |                                                                                              |      |                              |        |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                    |      |                                     |        |     |         |              |  |                  |  |
| CITY AND STATE<br><br>SAN JOSE, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | ELEVATION: 62 TDZE: 57<br>AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL |         |                                                                                              |      | FACILITY IDENTIFIER:<br>RNAV |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (RNP) Z RWY 30L, AMDT 2A<br>21 JULY 2016                                                                                                                                                                                                                                                                              |         |                                                                                                                                                                                                                                                                                                                                                                    |      | SUP:<br>AMDT: 2<br>DATED 03/05/2015 |        |     |         |              |  |                  |  |

QUALITY  
6  
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**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) - STANDARD,**  
**INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| FROM        | TO                         | COURSE AND DISTANCE | ALTITUDE |
|-------------|----------------------------|---------------------|----------|
| KLIDE (IF)  | HOSBO (TF) (FB) (RNP 1.00) | 305.94 / 7.33       | 2600     |
| HOSBO       | WOXAR (TF) (FB) (RNP 0.70) | 305.89 / 3.28       | 1600     |
| WOXAR (FAF) | RW30L (MAP) (TF) (FO)      | 305.86 / 4.67       |          |
| RW30L (MAP) | ARTAQ (TF) (FO) (RNP1.00)  | 305.83 / 8.53       | 2300     |

**NOTES, (CONT.):**

**CHART PLANVIEW NOTE AT KLIDE: (RNP 0.70).**

**CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.**

**CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).**

**CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 6000 AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 MILE.**

**CHART SPEED ICON IN PLANVIEW AT JEGSA: MAX 180 KIAS.**

**CHART SPEED ICON IN PLANVIEW AT YADUT : MAX 210 KIAS.**

**CHART SPEED ICON IN PLANVIEW AT KLIDE : MAX 230 KIAS.**

QUALITY  
6  
CHECKED

|                                    |                                                    |          |                                  |                                                                                                  |                   |
|------------------------------------|----------------------------------------------------|----------|----------------------------------|--------------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>SAN JOSE, CA | ELEVATION: 62                                      | TDZE: 57 | FACILITY IDENTIFIER:<br><br>RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br><br>RNAV (RNP) Z RWY 30L, AMDT 2A<br><br>21 JULY 2016 | SUP:              |
|                                    | AIRPORT NAME:<br><br>NORMAN Y MINETA SAN JOSE INTL |          |                                  |                                                                                                  | AMDT: 2           |
|                                    |                                                    |          |                                  |                                                                                                  | DATED: 03/05/2015 |

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |             |                       |       |     |                        |            |       |                        |               |                |                                    | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                            |  |
|---------------------------------------------------------------------|------------|-------------|-----------------------|-------|-----|------------------------|------------|-------|------------------------|---------------|----------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|
| RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |             |                       |       |     |                        |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |             |                       |       |     |                        |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| ARINC SUMMARY - KSJC                                                |            |             |                       |       |     |                        |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| ROUTES                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE           | FB/FO | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE | TURN<br>DIR            | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                | WPT<br>DESCRIPTION<br>CODE |  |
| JILNA                                                               | 010        | JILNA       | IF                    | FB    |     |                        |            |       |                        |               |                | AT 07000                           |                                                                                                                                                                                                                                                                                                                                                                      | E A                        |  |
| JILNA                                                               | 020        | YADUT       | TF                    | FB    | 1.0 |                        |            |       |                        |               |                | AA 04800                           | AB 210                                                                                                                                                                                                                                                                                                                                                               | E B                        |  |
| JILNA                                                               | 030        | HEPAP       | RF                    | FB    | 0.6 |                        |            |       | L                      | CFBJT         | 03.09          | AA 04000                           |                                                                                                                                                                                                                                                                                                                                                                      | E                          |  |
| JILNA                                                               | 040        | FODPA       | TF                    | FB    | 0.6 |                        |            |       |                        |               |                | AA 03600                           |                                                                                                                                                                                                                                                                                                                                                                      | E                          |  |
| JILNA                                                               | 050        | JEGSA       | TF                    | FB    | 0.6 |                        |            |       |                        |               |                | AA 02800                           | AB 180                                                                                                                                                                                                                                                                                                                                                               | E                          |  |
| JILNA                                                               | 060        | WOXAR       | RF                    | FB    | 0.5 |                        |            |       | L                      | CFBKG         | 02.10          | AA 01600                           |                                                                                                                                                                                                                                                                                                                                                                      | EE                         |  |
| KLIDE                                                               | 010        | KLIDE       | IF                    | FB    |     |                        |            |       |                        |               |                | AA 04000                           | AB 230                                                                                                                                                                                                                                                                                                                                                               | E B                        |  |
| KLIDE                                                               | 020        | HOSBO       | TF                    | FB    | 1.0 |                        |            |       |                        |               |                | AA 02600                           |                                                                                                                                                                                                                                                                                                                                                                      | E                          |  |
| KLIDE                                                               | 030        | WOXAR       | TF                    | FB    | 0.7 |                        |            |       |                        |               |                | AA 01600                           |                                                                                                                                                                                                                                                                                                                                                                      | EE                         |  |
|                                                                     | 020        | WOXAR       | IF                    | FB    |     |                        |            |       |                        | RW30L         |                | AA 01600                           |                                                                                                                                                                                                                                                                                                                                                                      | E F                        |  |
|                                                                     | 030        | RW30L       | TF                    | FO    | 0.3 |                        |            | 3.00  |                        |               |                | AT 00111                           |                                                                                                                                                                                                                                                                                                                                                                      | GY M                       |  |
|                                                                     | 040        | ARTAQ       | TF                    | FO    | 1.0 |                        |            |       |                        |               |                | AA 02300                           |                                                                                                                                                                                                                                                                                                                                                                      | EYM                        |  |
|                                                                     | 050        | ARTAQ       | HM                    | FO    |     | 125.7                  |            |       | R                      |               |                | AA 02300                           |                                                                                                                                                                                                                                                                                                                                                                      | EE                         |  |
| POINTS                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| POINT NAME                                                          |            |             | LATITUDE              |       |     | LONGITUDE              |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| ARTAQ                                                               |            |             | N372748.04            |       |     | W1220225.34            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| CFBJT                                                               |            |             | N371503.98            |       |     | W1215949.41            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| CFBKG                                                               |            |             | N371627.91            |       |     | W1215329.69            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| FODPA                                                               |            |             | N371323.83            |       |     | W1215519.12            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| HEPAP                                                               |            |             | N371217.63            |       |     | W1215806.33            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| HOSBO                                                               |            |             | N371522.80            |       |     | W1214848.71            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| JEGSA                                                               |            |             | N371434.66            |       |     | W1215219.75            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| JILNA                                                               |            |             | N371455.70            |       |     | W1220858.20            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| KLIDE                                                               |            |             | N370951.03            |       |     | W1214246.98            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| WOXAR                                                               |            |             | N371751.02            |       |     | W1215130.67            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| YADUT                                                               |            |             | N371214.36            |       |     | W1220123.80            |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| RUNWAYS                                                             |            |             |                       |       |     |                        |            |       |                        |               |                |                                    |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| RUNWAY                                                              |            |             | THRESHOLD<br>LATITUDE |       |     | THRESHOLD<br>LONGITUDE |            |       | THRESHOLD<br>ELEVATION |               |                | PROCEDURE<br>TCH                   |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |
| RW30L                                                               |            |             | N372122.45            |       |     | W1215522.13            |            |       | 00057                  |               |                | 54.4                               |                                                                                                                                                                                                                                                                                                                                                                      |                            |  |

QUALITY  
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|                                       |                                                       |                 |                      |                                            |                          |
|---------------------------------------|-------------------------------------------------------|-----------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b>                                  | TDZE: <b>57</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                 | <b>RNAV</b>          | <b>RNAV (RNP) Z RWY 30L, AMDT 2A</b>       | AMDT: <b>2</b>           |
|                                       |                                                       |                 |                      | 21 JULY 2016                               | DATED: <b>03/05/2015</b> |

|                                                                                                                                                                                                                                                                            |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|--------|---------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|-------------------------------------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                         |  |                                                                          |       | RNAV (RNP) - STANDARD,<br>INSTRUMENT APPROACH PROCEDURE,<br>TITLE 14 CFR PART 97.33 |        |                                 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                            |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       | MISSED APPROACH                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| FROM                                                                                                                                                                                                                                                                       |  | TO                                                                       |       | COURSE AND DISTANCE                                                                 |        |                                 |         | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |       | RNP: DA                                                                                                                                                                                                                                                                       |        |       |         |                                     |     |         |
| JILNA (IAF)                                                                                                                                                                                                                                                                |  | YADUT (TF) (FB) (RNP 1.00)                                               |       | 100.90 / 6.62                                                                       |        |                                 |         | 4800                                                                                                                                                                                                                                                                                                                                                                 |       | CLIMB TO 600 THEN CLIMB TO 2300 DIRECT ARTAQ AND HOLD.                                                                                                                                                                                                                        |        |       |         |                                     |     |         |
| YADUT (IF)                                                                                                                                                                                                                                                                 |  | HEPAP (RF) (FB) (RNP 0.60)                                               |       | (3.09 NM RADIUS CCW (CFBJT))/2.72                                                   |        |                                 |         | 4000                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| HEPAP                                                                                                                                                                                                                                                                      |  | FODPA (TF) (FB) (RNP 0.60)                                               |       | 050.65 / 2.48                                                                       |        |                                 |         | 3600                                                                                                                                                                                                                                                                                                                                                                 |       | ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 125.72 INBOUND.<br>ROUTE TYPE QUALIFIER1: F<br>ROUTE TYPE: A, H<br>#TCH 110.1 MSL (DO NOT CHART)<br>DISTANCE TO THLD FROM 349 HAT: 0.92<br>ROUTE TYPE QUALIFIER2: S<br>CHART MINIMUM 4000 AT KLIDE.<br>CHART MANDATORY 7000 AT JILNA. |        |       |         |                                     |     |         |
| FODPA                                                                                                                                                                                                                                                                      |  | SIBAE (TF) (FB) (RNP 0.60)                                               |       | 050.73 / 2.75                                                                       |        |                                 |         | 2800                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| SIBAE                                                                                                                                                                                                                                                                      |  | TUZGY (RF) (FB) (RNP 0.50)                                               |       | (2.12 NM RADIUS CCW (CFBKP))/3.89                                                   |        |                                 |         | 1600                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                         |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                       |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       | MAG VAR: 13E EPOCH YEAR: 2020                                                                                                                                                                                                                                                 |        |       |         |                                     |     |         |
| 2. PROFILE STARTS AT TUZGY                                                                                                                                                                                                                                                 |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 3. FAC: 305.86 FAF: _____ DIST FAF TO MAP: _____ THLD: _____                                                                                                                                                                                                               |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 4. MIN. ALT: TUZGY 1600                                                                                                                                                                                                                                                    |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 5. DIST TO THLD FROM OM: 4.68 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                              |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 6. MIN GS INCPT: 1600 GS ALT AT: TUZGY 1600 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                  |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 7. GS ANGLE: 3.00 TCH: 55.0 # 34:1 IS CLEAR                                                                                                                                                                                                                                |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| 8. MSA FROM: RW30R 5600                                                                                                                                                                                                                                                    |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                   |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                            |  |                                                                          |       |                                                                                     |        |                                 |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |       | STANDARD                                                                                                                                                                                                                                                                      |        |       |         |                                     |     |         |
| CATEGORY ==>                                                                                                                                                                                                                                                               |  | A                                                                        |       | B                                                                                   |        | C                               |         | D                                                                                                                                                                                                                                                                                                                                                                    |       | E                                                                                                                                                                                                                                                                             |        |       |         |                                     |     |         |
|                                                                                                                                                                                                                                                                            |  | DH/MDA                                                                   | VIS   | HAT/HAA                                                                             | DH/MDA | VIS                             | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA                                                                                                                                                                                                                                                                       | DH/MDA | VIS   | HAT/HAA | DH/MDA                              | VIS | HAT/HAA |
|                                                                                                                                                                                                                                                                            |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
|                                                                                                                                                                                                                                                                            |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
|                                                                                                                                                                                                                                                                            |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| AUTHORIZATION REQUIRED                                                                                                                                                                                                                                                     |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| RNP 0.11 DA                                                                                                                                                                                                                                                                |  | 404                                                                      | 1 1/8 | 349                                                                                 | 404    | 1 1/8                           | 349     | 404                                                                                                                                                                                                                                                                                                                                                                  | 1 1/8 | 349                                                                                                                                                                                                                                                                           | 404    | 1 1/8 | 349     |                                     |     |         |
| RNP 0.20 DA                                                                                                                                                                                                                                                                |  | 475                                                                      | 1 3/8 | 420                                                                                 | 475    | 1 3/8                           | 420     | 475                                                                                                                                                                                                                                                                                                                                                                  | 1 3/8 | 420                                                                                                                                                                                                                                                                           | 475    | 1 3/8 | 420     |                                     |     |         |
| RNP 0.30 DA                                                                                                                                                                                                                                                                |  | 541                                                                      | 1 5/8 | 486                                                                                 | 541    | 1 5/8                           | 486     | 541                                                                                                                                                                                                                                                                                                                                                                  | 1 5/8 | 486                                                                                                                                                                                                                                                                           | 541    | 1 5/8 | 486     |                                     |     |         |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1C (31F) OR ABOVE 54C (130F).<br>CHART NOTE: GPS REQUIRED.<br>CHART PLANVIEW NOTE ADJACENT TO JILNA IAF: RF REQUIRED.<br>CHART PLANVIEW NOTE AT JILNA: (RNP 0.50).<br>(CONTINUED ON PAGE 2) |  |                                                                          |       |                                                                                     |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                               |        |       |         |                                     |     |         |
| CITY AND STATE<br>SAN JOSE, CA                                                                                                                                                                                                                                             |  | ELEVATION: 62 TDZE: 55<br>AIRPORT NAME:<br>NORMAN Y MINETA SAN JOSE INTL |       |                                                                                     |        | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (RNP) Z RWY 30R, AMDT 1A<br>21 JULY 2016                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                               |        |       |         | SUP:<br>AMDT: 1<br>DATED 03/05/2015 |     |         |

QUALITY  
2  
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**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) - STANDARD,**  
**INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| FROM        | TO                         | COURSE AND DISTANCE | ALTITUDE |
|-------------|----------------------------|---------------------|----------|
| KLIDE (IF)  | KIRVE (TF) (FB) (RNP 1.00) | 306.65 / 7.00       | 2600     |
| KIRVE       | TUZGY (TF) (FB) (RNP 0.70) | 306.35 / 3.60       | 1600     |
| TUZGY (FAF) | RW30R (MAP) (TF) (FO)      | 305.86 / 4.68       |          |
| RW30R (MAP) | 600 MSL (CA)               | 305.86              | 600      |
| 600 MSL     | ARTAQ (DF) (FO)            |                     | 2300     |

**NOTES, (CONT.):**

CHART PLANVIEW NOTE AT KLIDE: (RNP 0.70).

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET}).

CHART SPEED ICON IN PLANVIEW AT YADUT: MAX 210 KIAS.

CHART SPEED ICON IN PLANVIEW AT KLIDE: MAX 230 KIAS.

CHART SPEED ICON IN PLANVIEW AT SIBAE: MAX 180 KIAS.

QUALITY  
2  
CHECKED

|                                    |                               |          |                                  |                                         |                   |
|------------------------------------|-------------------------------|----------|----------------------------------|-----------------------------------------|-------------------|
| CITY AND STATE<br><br>SAN JOSE, CA | ELEVATION: 62                 | TDZE: 55 | FACILITY IDENTIFIER:<br><br>RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP:              |
|                                    | AIRPORT NAME:                 |          |                                  | RNAV (RNP) Z RWY 30R, AMDT 1A           | AMDT: 1           |
|                                    | NORMAN Y MINETA SAN JOSE INTL |          |                                  | 21 JULY 2016                            | DATED: 03/05/2015 |

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |             |                       |       |     |                        |            |       |                        |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|------------|-------------|-----------------------|-------|-----|------------------------|------------|-------|------------------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KSJC                                                |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE           | FB/FO | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE | TURN<br>DIR            | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| JILNA                                                               | 010        | JILNA       | IF                    | FB    |     |                        |            |       |                        |               |                | AT 07000                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| JILNA                                                               | 020        | YADUT       | TF                    | FB    | 1.0 |                        |            |       |                        |               |                | AA 04800                                                                                                                                                                                                                                                                                                                                                             | AB 210                                | E B                        |
| JILNA                                                               | 030        | HEPAP       | RF                    | FB    | 0.6 |                        |            |       | L                      | CFBJT         | 03.09          | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| JILNA                                                               | 040        | FODPA       | TF                    | FB    | 0.6 |                        |            |       |                        |               |                | AA 03600                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| JILNA                                                               | 050        | SIBAE       | TF                    | FB    | 0.6 |                        |            |       |                        |               |                | AA 02800                                                                                                                                                                                                                                                                                                                                                             | AB 180                                | E                          |
| JILNA                                                               | 060        | TUZGY       | RF                    | FB    | 0.5 |                        |            |       | L                      | CFBKP         | 02.12          | AA 01600                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| KLIDE                                                               | 010        | KLIDE       | IF                    | FB    |     |                        |            |       |                        |               |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             | AB 230                                | E B                        |
| KLIDE                                                               | 020        | KIRVE       | TF                    | FB    | 1.0 |                        |            |       |                        |               |                | AA 02600                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| KLIDE                                                               | 030        | TUZGY       | TF                    | FB    | 0.7 |                        |            |       |                        |               |                | AA 01600                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
|                                                                     | 020        | TUZGY       | IF                    | FB    |     |                        |            |       |                        | RW30R         |                | AA 01600                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 030        | RW30R       | TF                    | FO    | 0.3 |                        |            | 3.00  |                        |               |                | AT 00110                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040        |             | CA                    | FB    |     | 305.9                  |            |       |                        |               |                | AA 00600                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050        | ARTAQ       | DF                    | FO    |     |                        |            |       |                        |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 060        | ARTAQ       | HM                    | FO    |     | 125.7                  |            |       | R                      |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          |            |             | LATITUDE              |       |     | LONGITUDE              |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARTAQ                                                               |            |             | N372748.04            |       |     | W1220225.34            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CFBJT                                                               |            |             | N371503.98            |       |     | W1215949.41            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CFBKP                                                               |            |             | N371631.43            |       |     | W1215324.21            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FODPA                                                               |            |             | N371323.83            |       |     | W1215519.12            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HEPAP                                                               |            |             | N371217.63            |       |     | W1215806.33            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JILNA                                                               |            |             | N371455.70            |       |     | W1220858.20            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| KIRVE                                                               |            |             | N371511.55            |       |     | W1214827.78            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| KLIDE                                                               |            |             | N370951.03            |       |     | W1214246.98            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| SIBAE                                                               |            |             | N371436.97            |       |     | W1215213.62            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TUZGY                                                               |            |             | N371755.40            |       |     | W1215123.95            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| YADUT                                                               |            |             | N371214.36            |       |     | W1220123.80            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              |            |             | THRESHOLD<br>LATITUDE |       |     | THRESHOLD<br>LONGITUDE |            |       | THRESHOLD<br>ELEVATION |               |                | PROCEDURE<br>TCH                                                                                                                                                                                                                                                                                                                                                     |                                       |                            |
| RW30R                                                               |            |             | N372127.00            |       |     | W1215515.60            |            |       | 00055                  |               |                | 55.0                                                                                                                                                                                                                                                                                                                                                                 |                                       |                            |

QUALITY  
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|                                       |                                                       |                 |                      |                                            |                          |
|---------------------------------------|-------------------------------------------------------|-----------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>SAN JOSE, CA</b> | ELEVATION: <b>62</b>                                  | TDZE: <b>55</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                       | AIRPORT NAME:<br><b>NORMAN Y MINETA SAN JOSE INTL</b> |                 | <b>RNAV</b>          | <b>RNAV (RNP) Z RWY 30R, AMDT 1A</b>       | AMDT: <b>1</b>           |
|                                       |                                                       |                 |                      | 21 JULY 2016                               | DATED: <b>03/05/2015</b> |

|                                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|----------|--|------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|--|--------------|--|------------------|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                     |  | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| TERMINAL ROUTES                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  | MISSED APPROACH                                                                                                                          |  |                  |  |              |  |                  |  |
| FROM                                                                                                                                                   |  | TO                                                                         |  | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |  |                                                                         |  | ALTITUDE |  | ILS: DA                                                                                                                                  |  |                  |  |              |  |                  |  |
| FIM VORTAC                                                                                                                                             |  | ZIDOM INT/VNY 14.68 DME                                                    |  | 052.68 / 15.38                                                                                                                                                                                                                                                                                                                                                       |  |                                                                         |  | 6000     |  | CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 4600 ON HEADING 210 AND ON SMO VOR/DME R-267 AND ON VTU VOR/DME R-087 TO VTU VOR/DME AND HOLD. |  |                  |  |              |  |                  |  |
| VNY VOR/DME                                                                                                                                            |  | ZIDOM INT/VNY 14.68 DME                                                    |  | 324.69 / 14.72                                                                                                                                                                                                                                                                                                                                                       |  |                                                                         |  | 6000     |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| ZIDOM INT/VNY 14.68 DME (IAF)                                                                                                                          |  | UMBER INT/VNY 15.40 DME                                                    |  | 052.68 / 4.21 (FIM R-053) (VNY LR-332)                                                                                                                                                                                                                                                                                                                               |  |                                                                         |  | 6000     |  | ADDITIONAL FLIGHT DATA:<br>HOLD NW, LT, 130.63 INBOUND.<br>2161 AAO 340743N/1183046W<br>CHART BURBANK AIRPORT.                           |  |                  |  |              |  |                  |  |
| UMBER INT/VNY 15.40 DME (IF)                                                                                                                           |  | JINAT INT/VNY 11.40 DME                                                    |  | 163.51 / 4.02 (I-VNY)                                                                                                                                                                                                                                                                                                                                                |  |                                                                         |  | 4900     |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| JINAT INT/VNY 11.40 DME                                                                                                                                |  | FURRY INT/VNY 7.42 DME                                                     |  | 163.51 / 3.98 (I-VNY)                                                                                                                                                                                                                                                                                                                                                |  |                                                                         |  | 3800     |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                   |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 2. PROFILE STARTS AT UMBER INT/VNY 15.40 DME                                                                                                           |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 3. FAC: 163.51 FAF: _____ DIST FAF TO MAP: _____ THLD: _____                                                                                           |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 4. MIN. ALT: UMBER 6000, JINAT 4900, FURRY 3800                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 5. DIST TO THLD FROM OM: 7.96 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 901                                                                            |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 6. MIN GS INCPT: 3800 GS ALT AT: - OM: - MM: - IM: -                                                                                                   |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 7. GS ANGLE: 3.50 TCH: 48.7                                                                                                                            |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| 8. MSA FROM: VNY VOR/DME 005-095 9300, 095-185 4400, 185-275 6200, 275-005 7300                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  | MAG VAR: 12E |  | EPOCH YEAR: 2020 |  |
| MINIMUMS                                                                                                                                               |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  | ALTERNATE: N A                                                                                                                           |  | ILS: #           |  |              |  |                  |  |
| CATEGORY ==>                                                                                                                                           |  | A                                                                          |  | B                                                                                                                                                                                                                                                                                                                                                                    |  | C                                                                       |  | D        |  | E                                                                                                                                        |  |                  |  |              |  |                  |  |
|                                                                                                                                                        |  | DH/MDA                                                                     |  | VIS                                                                                                                                                                                                                                                                                                                                                                  |  | HAT/HAA                                                                 |  | DH/MDA   |  | VIS                                                                                                                                      |  | HAT/HAA          |  | DH/MDA       |  | VIS              |  |
| S-ILS 16R                                                                                                                                              |  | 1461                                                                       |  | 1 1/2                                                                                                                                                                                                                                                                                                                                                                |  | 668                                                                     |  | 1461     |  | 1 1/2                                                                                                                                    |  | 668              |  | 1461         |  | 1 1/2            |  |
|                                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
|                                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
|                                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
|                                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| NOTES:                                                                                                                                                 |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| # NA WHEN CONTROL TOWER CLOSED.                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| # NA WHEN LOCAL WEATHER NOT AVAILABLE.                                                                                                                 |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| # CAT A, B, C, D 700-2                                                                                                                                 |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS ALL CATS VISIBILITY TO 2 SM.                                                                         |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURBANK ALTIMETER SETTING AND INCREASE DA TO 1480 FEET AND ALL CATS VISIBILITY TO 1 5/8 SM. |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1990.                                                                                                  |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  |                  |  |              |  |                  |  |
| CITY AND STATE                                                                                                                                         |  | ELEVATION: 802 TDZE: 793                                                   |  | FACILITY IDENTIFIER: I-VNY                                                                                                                                                                                                                                                                                                                                           |  | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Y RWY 16R, AMDT 6 07/21/2016 |  |          |  |                                                                                                                                          |  | SUP: ILS RWY 16R |  |              |  |                  |  |
| VAN NUYS, CA                                                                                                                                           |  | AIRPORT NAME: VAN NUYS                                                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  | AMDT: 5I         |  |              |  |                  |  |
|                                                                                                                                                        |  |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                         |  |          |  |                                                                                                                                          |  | DATED 02/04/2016 |  |              |  |                  |  |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE  
VAN NUYS, CA

ELEVATION: 802 TDZE: 793  
AIRPORT NAME:  
VAN NUYS

FACILITY  
IDENTIFIER:  
I-VNY

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
ILS Y RWY 16R, AMDT 6  
07/21/2016

SUP: ILS RWY 16R  
AMDT: 5I  
DATED: 02/04/2016

QUALITY  
4  
CHECKED

|                                                                                                                                                                                               |            |             |             |       |                       |            |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|-------|-----------------------|------------|------------------------|-------|------------------------|---------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>ILS STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29</b> |            |             |             |       |                       |            |                        |       |                        |               |                  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KVNY<br><br>ROUTES                                                                                                                                                            |            |             |             |       |                       |            |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                    | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP                   | MAG<br>CRS | REC<br>NAV             | ANGLE | TURN<br>DIR            | CENTER<br>FIX | TURN<br>RADIUS   | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| FIM                                                                                                                                                                                           | 010        | FIM         | IF          | FB    |                       |            |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V                          |
| FIM                                                                                                                                                                                           | 020        | ZIDOM       | TF          | FB    |                       |            |                        |       |                        |               |                  | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| FIM                                                                                                                                                                                           | 030        | UMBER       | TF          | FB    |                       |            |                        |       |                        |               |                  | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| FIM                                                                                                                                                                                           | 040        | JINAT       | CF          | FB    |                       | 163.5      | IVNY                   |       |                        |               |                  | AA 04900                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| VNY                                                                                                                                                                                           | 010        | VNY         | IF          | FB    |                       |            |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V                          |
| VNY                                                                                                                                                                                           | 020        | ZIDOM       | TF          | FB    |                       |            |                        |       |                        |               |                  | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| VNY                                                                                                                                                                                           | 030        | UMBER       | TF          | FB    |                       |            |                        |       |                        |               |                  | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| VNY                                                                                                                                                                                           | 040        | JINAT       | CF          | FB    |                       | 163.5      | IVNY                   |       |                        |               |                  | AA 04900                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
|                                                                                                                                                                                               | 010        | JINAT       | IF          | FB    |                       |            | IVNY                   |       |                        |               |                  | AA 04900                                                                                                                                                                                                                                                                                                                                                             | GI 03800                              | E I                        |
|                                                                                                                                                                                               | 020        | FURRY       | CF          | FB    |                       | 164.0      | IVNY                   | 3.50  |                        | VNY           |                  | GI 03800                                                                                                                                                                                                                                                                                                                                                             | GS 03800                              | E F                        |
|                                                                                                                                                                                               | 030        | RW16R       | CF          | FO    |                       | 164.0      | IVNY                   | 3.50  |                        |               |                  | AT 00842                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                               | 040        |             | CA          | FB    |                       | 163.5      |                        |       |                        |               |                  | AA 01700                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                                                                                                                                               | 050        |             | VI          | FB    |                       | 210.0      |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|                                                                                                                                                                                               | 060        | VTU         | CF          | FO    |                       | 267.0      | VTU                    |       |                        |               |                  | AA 04600                                                                                                                                                                                                                                                                                                                                                             |                                       | VY                         |
|                                                                                                                                                                                               | 070        | VTU         | HM          | FO    |                       | 130.6      |                        |       | L                      |               |                  | AA 04600                                                                                                                                                                                                                                                                                                                                                             |                                       | VE                         |
| POINTS                                                                                                                                                                                        |            |             |             |       |                       |            |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                    |            |             |             |       | LATITUDE              |            | LONGITUDE              |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FIM                                                                                                                                                                                           |            |             |             |       | N342124.10            |            | W1185252.65            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| VNY                                                                                                                                                                                           |            |             |             |       | N341324.46            |            | W1182930.02            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| VTU                                                                                                                                                                                           |            |             |             |       | N340654.21            |            | W1190258.17            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| UMBER                                                                                                                                                                                         |            |             |             |       | N342849.23            |            | W1183057.69            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FURRY                                                                                                                                                                                         |            |             |             |       | N342050.90            |            | W1183012.28            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JINAT                                                                                                                                                                                         |            |             |             |       | N342449.39            |            | W1183034.92            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ZIDOM                                                                                                                                                                                         |            |             |             |       | N342713.86            |            | W1183540.65            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| IVNY (LOC)                                                                                                                                                                                    |            |             |             |       | N341140.34            |            | W1182920.16            |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                       |            |             |             |       |                       |            |                        |       |                        |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                        |            |             |             |       | THRESHOLD<br>LATITUDE |            | THRESHOLD<br>LONGITUDE |       | THRESHOLD<br>ELEVATION |               | PROCEDURE<br>TCH |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW16R                                                                                                                                                                                         |            |             |             |       | N341253.96            |            | W1182927.13            |       | 00793                  |               | 48.7             |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

|                                       |                               |                  |                      |                                            |                          |
|---------------------------------------|-------------------------------|------------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>VAN NUYS, CA</b> | ELEVATION: <b>802</b>         | TDZE: <b>793</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: <b>ILS RWY 16R</b>  |
|                                       | AIRPORT NAME: <b>VAN NUYS</b> |                  | <b>I-VNY</b>         | <b>ILS Y RWY 16R, AMDT 6</b>               | AMDT: <b>5I</b>          |
|                                       |                               |                  |                      | <b>07/21/2016</b>                          | DATED: <b>02/04/2016</b> |



|                                                                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|---------|----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------|------------------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                          |  | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      | MISSED APPROACH                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| FROM                                                                                                                                                                                                                                                        |  | TO                                                                         |      | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |        |                                                                             |         | ALTITUDE |      | ILS: DA                                                                                                                                                                                                                                              |        |                             |                  |        |     |         |
| FIM VORTAC                                                                                                                                                                                                                                                  |  | ZIDOM/VNY VOR/DME 14.68 DME                                                |      | 052.68 / 15.38                                                                                                                                                                                                                                                                                                                                                       |        |                                                                             |         | 6000     |      | CLIMB TO CROSS FATKO/VNY VOR/DME 1.53 DME AT OR BELOW 1750 THEN CLIMBING LEFT TURN TO 4600 ON VNY VOR/DME R-152 DIRECT HIRVI/VNY VOR/DME 8.03 DME THEN DIRECT SMO VOR/DME AND ON SMO VOR/DME R-267 AND ON VTU VOR/DME R-087 TO VTU VOR/DME AND HOLD. |        |                             |                  |        |     |         |
| VNY VOR/DME                                                                                                                                                                                                                                                 |  | ZIDOM/VNY VOR/DME 14.68 DME                                                |      | 324.69 / 14.72                                                                                                                                                                                                                                                                                                                                                       |        |                                                                             |         | 6000     |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| ZIDOM/VNY VOR/DME 14.68 DME (IAF)                                                                                                                                                                                                                           |  | UMBER INT/VNY VOR/DME 15.40 DME                                            |      | 052.68 / 4.21 (FIM R-053) (VNY LR-332)                                                                                                                                                                                                                                                                                                                               |        |                                                                             |         | 6000     |      | ADDITIONAL FLIGHT DATA:<br>HOLD NW, LT, 130.63 INBOUND.<br>2161 AAO 340743N/1183046W<br>CHART BURBANK AIRPORT.<br>CHART AT OR BELOW 1750 AT FATKO.                                                                                                   |        |                             |                  |        |     |         |
| UMBER INT/VNY VOR/DME 15.40 DME (IF)                                                                                                                                                                                                                        |  | JINAT/VNY VOR/DME 11.40 DME                                                |      | 163.51 / 4.02 (I-VNY)                                                                                                                                                                                                                                                                                                                                                |        |                                                                             |         | 4900     |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| JINAT/VNY VOR/DME 11.40 DME                                                                                                                                                                                                                                 |  | FURRY/VNY VOR/DME 7.42 DME                                                 |      | 163.51 / 3.98 (I-VNY)                                                                                                                                                                                                                                                                                                                                                |        |                                                                             |         | 3800     |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                        |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 2. PROFILE STARTS AT UMBER INT/VNY VOR/DME 15.40 DME                                                                                                                                                                                                        |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 3. FAC: 163.51 FAF: _____ DIST FAF TO MAP: _____ THLD: _____                                                                                                                                                                                                |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 4. MIN. ALT: UMBER 6000, JINAT 4900, FURRY 3800                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 5. DIST TO THLD FROM OM: 7.96 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 901                                                                                                                                                                                 |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 6. MIN GS INCPT: 3800 GS ALT AT: FURRY 3800 OM: - MM: - IM: -                                                                                                                                                                                               |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 7. GS ANGLE: 3.50 TCH: 48.7                                                                                                                                                                                                                                 |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| 8. MSA FROM: VNY VOR/DME 005-095 9300, 095-185 4400, 185-275 6200, 275-005 7300                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      | MAG VAR: 12E                                                                                                                                                                                                                                         |        |                             | EPOCH YEAR: 2020 |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                    |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      | ALTERNATE: N A                                                                                                                                                                                                                                       |        | ILS: STANDARD #             |                  |        |     |         |
| CATEGORY ==>                                                                                                                                                                                                                                                |  | A                                                                          |      | B                                                                                                                                                                                                                                                                                                                                                                    |        | C                                                                           |         | D        |      | E                                                                                                                                                                                                                                                    |        |                             |                  |        |     |         |
|                                                                                                                                                                                                                                                             |  | DH/MDA                                                                     | VIS  | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                                                         | HAT/HAA | DH/MDA   | VIS  | HAT/HAA                                                                                                                                                                                                                                              | DH/MDA | VIS                         | HAT/HAA          | DH/MDA | VIS | HAT/HAA |
| S-ILS 16R                                                                                                                                                                                                                                                   |  | 1095                                                                       | 4000 | 302                                                                                                                                                                                                                                                                                                                                                                  | 1095   | 4000                                                                        | 302     | 1095     | 4000 | 302                                                                                                                                                                                                                                                  | 1095   | 4000                        | 302              |        |     |         |
|                                                                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
|                                                                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
|                                                                                                                                                                                                                                                             |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| NOTES:<br>CHART NOTE: DME REQUIRED.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURBANK ALTIMETER SETTING AND INCREASE DA TO 1114.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.<br>(CONTINUED ON PAGE 2) |  |                                                                            |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |          |      |                                                                                                                                                                                                                                                      |        |                             |                  |        |     |         |
| CITY AND STATE<br>VAN NUYS, CA                                                                                                                                                                                                                              |  | ELEVATION: 802 TDZE: 793<br>AIRPORT NAME:<br>VAN NUYS                      |      | FACILITY IDENTIFIER:<br>I-VNY                                                                                                                                                                                                                                                                                                                                        |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS Z RWY 16R, ORIG<br>07/21/2016 |         |          |      |                                                                                                                                                                                                                                                      |        | SUP:<br>AMDT: NONE<br>DATED |                  |        |     |         |

QUALITY  
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ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):  
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE CAT A/B/C VISIBILITY TO RVR 5000.  
CHART PLANVIEW NOTE: A DESCENT TO AT OR BELOW 1750 MAY BE REQUIRED WHEN EXECUTING AN EARLY MISSED APPROACH.  
CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1990.

QUALITY  
5  
CHECKED

|                                |                           |            |                               |                                                                             |      |
|--------------------------------|---------------------------|------------|-------------------------------|-----------------------------------------------------------------------------|------|
| CITY AND STATE<br>VAN NUYS, CA | ELEVATION: 802            | TDZE: 793  | FACILITY IDENTIFIER:<br>I-VNY | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS Z RWY 16R, ORIG<br>07/21/2016 | SUP: |
|                                | AIRPORT NAME:<br>VAN NUYS | AMDT: NONE |                               |                                                                             |      |
|                                | DATED:                    |            |                               |                                                                             |      |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KVNy

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| FIM        | 010        | FIM         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| FIM        | 020        | ZIDOM       | TF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E A                        |
| FIM        | 030        | UMBER       | TF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E B                        |
| FIM        | 040        | JINAT       | CF          | FB    |     | 163.5      | IVNY       |       |             |               |                | AA 04900                           |                                       | EE                         |
| VNY        | 010        | VNY         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| VNY        | 020        | ZIDOM       | TF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E A                        |
| VNY        | 030        | UMBER       | TF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E B                        |
| VNY        | 040        | JINAT       | CF          | FB    |     | 163.5      | IVNY       |       |             |               |                | AA 04900                           |                                       | EE                         |
|            | 010        | JINAT       | IF          | FB    |     |            | IVNY       |       |             |               |                | AA 04900 GI 03800                  |                                       | E I                        |
|            | 020        | FURRY       | CF          | FB    |     | 164.0      | IVNY       | 3.50  |             | VNY           |                | GI 03800 GS 03800                  |                                       | E F                        |
|            | 030        | RW16R       | CF          | FO    |     | 164.0      | IVNY       | 3.50  |             |               |                | AT 00842                           |                                       | GY M                       |
|            | 040        | FATKO       | TF          | FO    |     |            |            |       |             |               |                | AB 01750                           |                                       | EYM                        |
|            | 050        | HIRVI       | DF          | FO    |     |            |            |       |             |               |                | AA 04600                           |                                       | EY                         |
|            | 060        | SMO         | DF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
|            | 070        | VTU         | CF          | FO    |     | 267.0      | VTU        |       | R           |               |                | AA 04600                           |                                       | VY                         |
|            | 080        | VTU         | HM          | FO    |     | 130.6      |            |       | L           |               |                | AA 04600                           |                                       | VE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| FIM        | N342124.10 | W1185252.65 |
| SMO        | N340036.88 | W1182724.18 |
| VNY        | N341324.46 | W1182930.02 |
| VTU        | N340654.21 | W1190258.17 |
| UMBER      | N342849.23 | W1183057.69 |
| FATKO      | N341154.58 | W1182921.52 |
| FURRY      | N342050.90 | W1183012.28 |
| HIRVI      | N340535.92 | W1182720.00 |
| JINAT      | N342449.39 | W1183034.92 |
| ZIDOM      | N342713.86 | W1183540.65 |
| IVNY (LOC) | N341140.34 | W1182920.16 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
|--------|-----------------------|------------------------|------------------------|------------------|

QUALITY  
28  
CHECKED

CITY AND STATE  
**VAN NUYS, CA**

ELEVATION: **802** **TDZE: 793**  
AIRPORT NAME:  
**VAN NUYS**

FACILITY  
IDENTIFIER:  
**I-VNY**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**ILS Z RWY 16R, ORIG**  
**07/21/2016**

SUP:  
AMDT: **NONE**  
DATED:

|       |            |             |       |      |
|-------|------------|-------------|-------|------|
| RW16R | N341253.96 | W1182927.13 | 00793 | 48.7 |
|-------|------------|-------------|-------|------|



|                                |                           |            |                                   |                                                                                 |      |
|--------------------------------|---------------------------|------------|-----------------------------------|---------------------------------------------------------------------------------|------|
| CITY AND STATE<br>VAN NUYS, CA | ELEVATION: 802            | TDZE: 793  | FACILITY IDENTIFIER:<br><br>I-VNY | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br>ILS Z RWY 16R, ORIG<br>07/21/2016 | SUP: |
|                                | AIRPORT NAME:<br>VAN NUYS | AMDT: NONE |                                   |                                                                                 |      |
|                                | DATED:                    |            |                                   |                                                                                 |      |

|                                                                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------|---------|-------|---------------------------|----------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|-----|-----|---------|--------------|--|------------------|--|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>VOR STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23</b>                                                                                                                                                                          |      |                                |         |       |                           |                      |      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                               |     |                 |     |     |         |              |  |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                  |      | TO                             |         |       | COURSE AND DISTANCE       |                      |      | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |         | MAP: VNY VOR/DME                                                                                                                                                                                                                                                                                                     |     |                 |     |     |         |              |  |                  |  |
| LAX VORTAC                                                                                                                                                                                                                                                                                                                                                            |      | CANOG INT/VNY 5.10 DME         |         |       | 320.12 / 19.17            |                      |      | 4400                                                                                                                                                                                                                                                                                                                                                                 |         | CLIMBING RIGHT TURN TO 4000 ON VNY VOR/DME R-101 TO AMTRA INT/20.22 DME AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br><br>HOLD W, RT, 101.37 INBOUND.<br>CHART FAS OBST: 1161 TREE 341357N/1183620W<br>CHART 1249 TREE 341426N/1183654W<br>CHART CIRCLING ICON.<br>FAC CROSSES RWY C/L EXTENDED 1662 NORTH OF RWY 16R. |     |                 |     |     |         |              |  |                  |  |
| SMO VOR/DME                                                                                                                                                                                                                                                                                                                                                           |      | CANOG INT/VNY 5.10 DME         |         |       | 316.84 / 14.49            |                      |      | 4400                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| VNY VOR/DME                                                                                                                                                                                                                                                                                                                                                           |      | CANOG INT/VNY 5.10 DME         |         |       | 255.00 / 5.10             |                      |      | 4600                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| FIM VORTAC (IAF)                                                                                                                                                                                                                                                                                                                                                      |      | SUANA INT/VNY 11.40 DME (NOPT) |         |       | 120.00 / 11.30            |                      |      | 4400                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| GINNA/VNY 16.94 DME (IAF)                                                                                                                                                                                                                                                                                                                                             |      | SUANA INT/VNY 11.40 DME (NOPT) |         |       | 075.00 / 5.54 (VNY R-255) |                      |      | 4400                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| VTU VOR/DME (IAF)                                                                                                                                                                                                                                                                                                                                                     |      | SUANA INT/11.40 DME (NOPT)     |         |       | 053.31 / 17.60            |                      |      | 4600                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| SUANA INT/VNY 11.40 DME (IF)                                                                                                                                                                                                                                                                                                                                          |      | CANOG INT/VNY 5.10 DME         |         |       | 075.00 / 6.30             |                      |      | 3400                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD W CANOG, RT, 075.00 INBOUND, 3700 FT. IN LIEU OF PT (IAF) _____<br>3. FAC 075.00 FAF CANOG INT/VNY 5.10 DME _____ DIST FAF TO MAP _____ THLD _____<br>4. MIN. ALT CANOG 3400 _____<br>8. MSA FROM: VNY VOR/DME 005-095 9300, 095-185 4400, 185-275 6200, 275-005 7300 |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         | MAG VAR: 15E |  | EPOCH YEAR: 1975 |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |         | STANDARD #                                                                                                                                                                                                                                                                                                           |     |                 |     |     |         |              |  |                  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                       |      | A                              |         |       | B                         |                      |      | C                                                                                                                                                                                                                                                                                                                                                                    |         |                                                                                                                                                                                                                                                                                                                      | D   |                 |     | E   |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                       | MDA  | VIS                            | HAT/HAA | MDA   | VIS                       | HAT/HAA              | MDA  | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA | MDA                                                                                                                                                                                                                                                                                                                  | VIS | HAT/HAA         | MDA | VIS | HAT/HAA |              |  |                  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                              | 1500 | 1                              | 698     | 1500  | 1                         | 698                  | 1500 | 2                                                                                                                                                                                                                                                                                                                                                                    | 2060    | 1740                                                                                                                                                                                                                                                                                                                 | 3   | 1258            |     |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                       |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| NOTES:<br><br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FIM VORTAC ON V518 WESTBOUND. # CAT D 1000-3<br>CHART NOTE: CIRCLING RWY 16L NA AT NIGHT.<br>CHART NOTE: RWY 16L HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.                                                                                                                           |      |                                |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     |                 |     |     |         |              |  |                  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                        |      | ELEVATION: 802                 |         | TDZE: |                           | FACILITY IDENTIFIER: |      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                               |         |                                                                                                                                                                                                                                                                                                                      |     | SUP             |     |     |         |              |  |                  |  |
| VAN NUYS, CA                                                                                                                                                                                                                                                                                                                                                          |      | AIRPORT NAME:                  |         |       |                           | VNY                  |      | VOR-A, AMDT 4B<br>21 JULY 2016                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                      |     | AMDT 44A        |     |     |         |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                       |      | VAN NUYS                       |         |       |                           |                      |      |                                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                      |     | DATE 03/07/2013 |     |     |         |              |  |                  |  |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## VOR STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.23

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KVNy

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| FIM        | 010        | FIM         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| FIM        | 020        | SUANA       | TF          | FB    |     |            |            |       |             |               |                | AA 04400                           |                                       | E B                        |
| FIM        | 030        | CANOG       | TF          | FB    |     |            |            |       |             |               |                | AA 03400                           |                                       | EE                         |
| GINNA      | 010        | GINNA       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| GINNA      | 020        | SUANA       | TF          | FB    |     |            |            |       |             |               |                | AA 04400                           |                                       | E B                        |
| GINNA      | 030        | CANOG       | TF          | FB    |     |            |            |       |             |               |                | AA 03400                           |                                       | EE                         |
| LAX        | 010        | LAX         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| LAX        | 020        | CANOG       | TF          | FO    |     |            |            |       |             |               |                | AA 04400                           |                                       | EY                         |
| LAX        | 030        | CANOG       | HF          | FO    |     | 075.0      |            |       | R           |               |                | AA 03700                           |                                       | EE A                       |
| SMO        | 010        | SMO         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| SMO        | 020        | CANOG       | TF          | FO    |     |            |            |       |             |               |                | AA 04400                           |                                       | EY                         |
| SMO        | 030        | CANOG       | HF          | FO    |     | 075.0      |            |       | R           |               |                | AA 03700                           |                                       | EE A                       |
| VNY        | 010        | VNY         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| VNY        | 020        | CANOG       | TF          | FO    |     |            |            |       |             |               |                | AA 04600                           |                                       | EY                         |
| VNY        | 030        | CANOG       | HF          | FO    |     | 075.0      |            |       | R           |               |                | AA 03700                           |                                       | EE A                       |
| VTU        | 010        | VTU         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| VTU        | 020        | SUANA       | TF          | FB    |     |            |            |       |             |               |                | AA 04600                           |                                       | E B                        |
| VTU        | 030        | CANOG       | TF          | FB    |     |            |            |       |             |               |                | AA 03400                           |                                       | EE                         |
|            | 020        | CANOG       | IF          | FB    |     |            |            |       |             | VNY           |                | AA 03400                           |                                       | E F                        |
|            | 030        | VNY         | CF          | FO    |     | 075.0      | VNY        | 0.00  |             |               |                | AT 02060                           |                                       | VY M                       |
|            | 040        | CA          | FB          |       |     | 075.0      |            |       |             |               |                | AA 01202                           |                                       | M                          |
|            | 050        | AMTRA       | CF          | FO    |     | 101.0      | VNY        |       |             |               |                | AA 04000                           |                                       | EY                         |
|            | 060        | AMTRA       | HM          | FO    |     | 101.4      |            |       | R           |               |                | AA 04000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| FIM        | N342124.10 | W1185252.65 |
| LAX        | N335559.33 | W1182555.24 |
| SMO        | N340036.88 | W1182724.18 |
| VNY        | N341324.47 | W1182930.02 |
| VTU        | N340654.21 | W1190258.17 |
| AMTRA      | N340422.64 | W1180741.35 |
| CANOG      | N341324.25 | W1183538.77 |
| GINNA      | N341322.70 | W1184955.48 |
| SUANA      | N341323.64 | W1184314.68 |

QUALITY  
15  
CHECKED

|                                       |                                                           |                         |                                           |                                                                                     |                          |
|---------------------------------------|-----------------------------------------------------------|-------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>VAN NUYS, CA</b> | ELEVATION: <b>802</b><br>AIRPORT NAME:<br><b>VAN NUYS</b> | TDZE:<br><br><b>VNY</b> | FACILITY<br>IDENTIFIER:<br><br><b>VNY</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>VOR-A, AMDT 4B</b><br>21 JULY 2016 | SUP:                     |
|                                       |                                                           |                         |                                           |                                                                                     | AMDT: <b>4A</b>          |
|                                       |                                                           |                         |                                           |                                                                                     | DATED: <b>03/07/2013</b> |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## VOR STANDARD INSTRUMENT APPROACH PROCEDURE

## FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.23

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW16L  | N341254.25            | W1182922.68            | 00791                  |                  |
| RW16R  | N341253.96            | W1182927.13            | 00793                  |                  |
| RW34L  | N341149.18            | W1182921.01            | 00746                  |                  |
| RW34R  | N341228.82            | W1182920.27            | 00772                  |                  |

QUALITY  
15  
CHECKED

CITY AND STATE  
VAN NUYS, CA

ELEVATION: 802  
AIRPORT NAME:

VAN NUYS

TDZE:

FACILITY  
IDENTIFIER:

VNY

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

VOR-A, AMDT 4B

21 JULY 2016

SUP:

AMDT: 4A

DATED: 03/07/2013

|                                                                                                                                                                         |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|-------|---------|----------------------------|-------|---------|----------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-----|---------------------|---------|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |  |                                |       |         |                            |       |         |                      |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| TERMINAL ROUTES                                                                                                                                                         |  |                                |       |         |                            |       |         |                      |          | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| FROM                                                                                                                                                                    |  | TO                             |       |         | COURSE AND DISTANCE        |       |         |                      | ALTITUDE |                                                                                                                                                                                                                                                                                                                                                                      | MAP: VNY VOR/DME                                                                                                                                                                    |     |         |     |                     |         |  |  |  |
| VNY VOR/DME                                                                                                                                                             |  | PURSY/VNY 5.00 DME             |       |         | 335.00 / 5.00              |       |         |                      | 5400     |                                                                                                                                                                                                                                                                                                                                                                      | CLIMB TO CROSS VNY 1.50 DME AT OR BELOW 1750, THEN CLIMBING LEFT TURN TO 4000 ON VNY VOR/DME R-101 TO AMTRA INT/VNY 20.22 DME AND HOLD.                                             |     |         |     |                     |         |  |  |  |
| SAUGS INT (IAF)                                                                                                                                                         |  | GRANS INT/VNY 14.94 DME (NOPT) |       |         | 233.00 / 4.12 (FIM R-053)  |       |         |                      | 6000     |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| FIM VORTAC (IAF)                                                                                                                                                        |  | GRANS INT (NOPT)               |       |         | 053.00 / 18.05 (VNY R-335) |       |         |                      | 6000     |                                                                                                                                                                                                                                                                                                                                                                      | ADDITIONAL FLIGHT DATA:<br>HOLD W, RT, 101.37 INBOUND.<br>CHART FAS OBST: 1154 TREE 341607N/1183125W<br>CHART CIRCLING ICON.<br>FAC CROSSES RWY 16R C/L EXTENDED 1661 FT FROM THLD. |     |         |     |                     |         |  |  |  |
| GMN VORTAC (IAF)                                                                                                                                                        |  | CANTI/GMN 15.50 DME (NOPT)     |       |         | 125.84 / 15.50             |       |         |                      | 9000     |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| CANTI                                                                                                                                                                   |  | GRANS INT                      |       |         | 125.84 / 9.98 (GMN R-126)  |       |         |                      | 6000     |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| GRANS INT (IF)                                                                                                                                                          |  | PURSY/VNY 5.00 DME             |       |         | 155.00 / 9.94 (VNY R-335)  |       |         |                      | 3500     |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| 1. PT <u>L</u> SIDE OF COURSE <u>335.00</u> OUTBOUND <u>5400</u> FT WITHIN <u>10</u> MILES OF <u>PURSY</u> (IAF)                                                        |  |                                |       |         |                            |       |         |                      |          | MAG VAR: 15E EPOCH YEAR:1975                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| 2.                                                                                                                                                                      |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| 3. FAC <u>155.00</u> FAF <u>PURSY/VNY 5.00 DME</u> DIST FAF TO MAP <u></u> THLD <u></u>                                                                                 |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| 4. MIN. ALT <u>PURSY 3500, ZEXUG/VNY 2.50 DME 2580</u>                                                                                                                  |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| 8. MSA FROM: <u>VNY VOR/DME 005-095 9300, 095-185 4400, 185-275 6200, 275-005 7300</u>                                                                                  |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| MINIMUMS                                                                                                                                                                |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                         |  |                                |       |         |                            |       |         |                      |          | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                     | #   |         |     |                     |         |  |  |  |
| CATEGORY =====>                                                                                                                                                         |  | A                              |       |         | B                          |       |         | C                    |          |                                                                                                                                                                                                                                                                                                                                                                      | D                                                                                                                                                                                   |     |         | E   |                     |         |  |  |  |
|                                                                                                                                                                         |  | MDA                            | VIS   | HAT/HAA | MDA                        | VIS   | HAT/HAA | MDA                  | VIS      | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | MDA                                                                                                                                                                                 | VIS | HAT/HAA | MDA | VIS                 | HAT/HAA |  |  |  |
| CIRCLING                                                                                                                                                                |  | 1660                           | 1 1/4 | 858     | 1660                       | 1 1/4 | 858     | 1660                 | 2 1/2    | 858                                                                                                                                                                                                                                                                                                                                                                  | 1740                                                                                                                                                                                | 3   | 938     |     |                     |         |  |  |  |
|                                                                                                                                                                         |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
|                                                                                                                                                                         |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
|                                                                                                                                                                         |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| NOTES:                                                                                                                                                                  |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| CHART NOTE: DME REQUIRED.                                                                                                                                               |  |                                |       |         |                            |       |         |                      |          | # CAT A/B 900-2, CAT C 900-2 1/2, CAT D 1000-3                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| CHART NOTE: CIRCLING RWY 16L NA AT NIGHT.                                                                                                                               |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FIM VORTAC AIRWAY RADIALS 347 CW                                                                                       |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| 097.(CONTINUED ON PAGE 2)                                                                                                                                               |  |                                |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     |                     |         |  |  |  |
| CITY AND STATE                                                                                                                                                          |  | ELEVATION: 802                 |       |         | TDZE:                      |       |         | FACILITY IDENTIFIER: |          | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                     |     |         |     | SUP VOR/DME OR GPS- |         |  |  |  |
| VAN NUYS, CA                                                                                                                                                            |  | AIRPORT NAME:                  |       |         |                            |       |         | VNY                  |          | VOR-B, AMDT 3<br>21 JULY 2016                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                     |     |         |     | AMDT 2B             |         |  |  |  |
|                                                                                                                                                                         |  | VAN NUYS                       |       |         |                            |       |         |                      |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |     |         |     | DATE 03/07/2013     |         |  |  |  |



**VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GMN VORTAC AIRWAY RADIALS 088 CW 166.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SAUGS ON V165-459 SOUTHBOUND.

CHART NOTE: CIRCLING NA FOR CAT D WEST OF RWY 16R-34L.

CHART NOTE: RWY 16L HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CITY AND STATE

VAN NUYS, CA

**ELEVATION: 802****TDZE:**

AIRPORT NAME:

VAN NUYS

FACILITY  
IDENTIFIER:

VNY

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**VOR-B, AMDT 3**

21 JULY 2016

SUP: **VOR/DME OR GPS-B**AMDT: **2B**DATED: **03/07/2013**QUALITY  
4

8/20/13

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>VOR STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.23</b> |            |             |             |       |                       |            |            |       |             |                        |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                        |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|-------|-----------------------|------------|------------|-------|-------------|------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|------------------------|------------------|
| ARINC SUMMARY - KVMY                                                                                                                                                                          |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ROUTES                                                                                                                                                                                        |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| TRANSITION                                                                                                                                                                                    | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP                   | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX          | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                        |                  |
| FIM                                                                                                                                                                                           | 010        | FIM         | IF          | FB    |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V A                        |                        |                  |
| FIM                                                                                                                                                                                           | 020        | GRANS       | TF          | FB    |                       |            |            |       |             |                        |                | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |                        |                  |
| GMN                                                                                                                                                                                           | 010        | GMN         | IF          | FB    |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V A                        |                        |                  |
| GMN                                                                                                                                                                                           | 020        | CANTI       | TF          | FB    |                       |            |            |       |             |                        |                | AA 09000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |                        |                  |
| GMN                                                                                                                                                                                           | 030        | GRANS       | TF          | FB    |                       |            |            |       |             |                        |                | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |                        |                  |
| SAUGS                                                                                                                                                                                         | 010        | SAUGS       | IF          | FB    |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |                        |                  |
| SAUGS                                                                                                                                                                                         | 020        | GRANS       | TF          | FB    |                       |            |            |       |             |                        |                | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |                        |                  |
| VNY                                                                                                                                                                                           | 010        | VNY         | IF          | FB    |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V                          |                        |                  |
| VNY                                                                                                                                                                                           | 020        | PURSY       | TF          | FB    |                       |            |            |       |             |                        |                | AA 05400                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |                        |                  |
| VNY                                                                                                                                                                                           | 030        | PURSY       | PI          | FB    |                       | 290.0      | VNY        |       | R           |                        |                | AA 05400                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |                        |                  |
|                                                                                                                                                                                               | 010        | GRANS       | IF          | FB    |                       |            |            |       |             |                        |                | AA 06000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |                        |                  |
|                                                                                                                                                                                               | 020        | PURSY       | CF          | FB    |                       | 155.0      | VNY        |       |             | VNY                    |                | AA 03500                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |                        |                  |
|                                                                                                                                                                                               | 021        | ZEXUG       | CF          | FB    |                       | 155.0      | VNY        | 0.00  |             |                        |                | AA 02580                                                                                                                                                                                                                                                                                                                                                             |                                       | E S                        |                        |                  |
|                                                                                                                                                                                               | 030        | VNY         | CF          | FO    |                       | 155.0      | VNY        | 0.00  |             |                        |                | AT 01740                                                                                                                                                                                                                                                                                                                                                             |                                       | VY M                       |                        |                  |
|                                                                                                                                                                                               | 040        |             | CD          | FB    |                       | 155.0      | VNY        |       |             |                        |                | AB 01750                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |                        |                  |
|                                                                                                                                                                                               | 050        | AMTRA       | CF          | FO    |                       | 101.0      | VNY        |       | L           |                        |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |                        |                  |
|                                                                                                                                                                                               | 060        | AMTRA       | HM          | FO    |                       | 101.4      |            |       | R           |                        |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |                        |                  |
| POINTS                                                                                                                                                                                        |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| POINT NAME                                                                                                                                                                                    |            |             |             |       | LATITUDE              |            |            |       |             | LONGITUDE              |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| FIM                                                                                                                                                                                           |            |             |             |       | N342124.10            |            |            |       |             | W1185252.65            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| GMN                                                                                                                                                                                           |            |             |             |       | N344814.50            |            |            |       |             | W1185140.90            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| VNY                                                                                                                                                                                           |            |             |             |       | N341324.46            |            |            |       |             | W1182930.02            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| AMTRA                                                                                                                                                                                         |            |             |             |       | N340422.64            |            |            |       |             | W1180741.35            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| SAUGS                                                                                                                                                                                         |            |             |             |       | N342947.69            |            |            |       |             | W1182803.80            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| CANTI                                                                                                                                                                                         |            |             |             |       | N343601.47            |            |            |       |             | W1184004.82            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| GRANS                                                                                                                                                                                         |            |             |             |       | N342808.77            |            |            |       |             | W1183238.29            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| PURSY                                                                                                                                                                                         |            |             |             |       | N341820.40            |            |            |       |             | W1183032.91            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| ZEXUG                                                                                                                                                                                         |            |             |             |       | N341552.44            |            |            |       |             | W1183001.45            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| RUNWAYS                                                                                                                                                                                       |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |                  |
| RUNWAY                                                                                                                                                                                        |            |             |             |       | THRESHOLD<br>LATITUDE |            |            |       |             | THRESHOLD<br>LONGITUDE |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
| RW16L                                                                                                                                                                                         |            |             |             |       | N341254.25            |            |            |       |             | W1182922.68            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | 00791                  |                  |

QUALITY  
28  
CHECKED

|                                       |                       |       |                      |                                            |                              |
|---------------------------------------|-----------------------|-------|----------------------|--------------------------------------------|------------------------------|
| CITY AND STATE<br><b>VAN NUYS, CA</b> | ELEVATION: <b>802</b> | TDZE: | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: <b>VOR/DME OR GPS-B</b> |
|                                       | AIRPORT NAME:         |       |                      | <b>VOR-B, AMDT 3</b>                       | AMDT: <b>2B</b>              |
|                                       | <b>VAN NUYS</b>       |       | <b>VNY</b>           | 21 JULY 2016                               | DATED: <b>03/07/2013</b>     |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## VOR STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.23

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

|       |            |             |       |
|-------|------------|-------------|-------|
| RW16R | N341253.96 | W1182927.13 | 00793 |
| RW34L | N341149.18 | W1182921.01 | 00746 |
| RW34R | N341228.82 | W1182920.27 | 00772 |

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CITY AND STATE

VAN NUYS, CA

ELEVATION: 802

TDZE:

AIRPORT NAME:

VAN NUYS

FACILITY  
IDENTIFIER:

VNY

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

VOR-B, AMDT 3

21 JULY 2016

SUP: VOR/DME OR GPS-B

AMDT: 2B

DATED: 03/07/2013

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|--------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | TO                                                                         |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |      |                                                                                       |        | ALTITUDE |         | ILS: DA<br>LOC: 4.82 NM AFTER AGLER INT/I-VIN 6.69 DME/RADAR OR AT I-VIN 1.87 DME FIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                       |        |     |         |
| ZILBI INT/16.87 DME/RADAR (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | BASHO INT/11.10 DME/RADAR                                                  |         | 272.39 / 5.77 (I-VIN)                                                                                                                                                                                                                                                                                                                                                |      |                                                                                       |        | 3000     |         | CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2000 ON HEADING 290 AND DHP VORTAC R-335 TO BRBRA/DHP 11.48 DME AND HOLD; OR WHEN DIRECTED BY ATC.<br><br>ALTERNATE MA: CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 250 AND VKZ VOR/DME R-278 TO CICIV INT/VKZ 19.02 DME AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 154.68 INBOUND.<br>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E CICIV INT/VKZ 19.02 DME, RT, 278.00 INBOUND.<br>CHART FAS OBST: 159 TOWER 254831N/0801334W<br>CHART 171 TOWER 254837N/0801313W.<br>CHART VDP AT 2.93 DME*<br>DISTANCE VDP TO THLD 1.06 NM.<br>*LOC ONLY.<br>CHART IN PLANVIEW: CICIV INT/VKZ 19.02 DME. |       |                                       |        |     |         |
| BASHO INT/11.10 DME/RADAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | AGLER INT/6.69 DME/RADAR                                                   |         | 272.39 / 4.41 (I-VIN)                                                                                                                                                                                                                                                                                                                                                |      |                                                                                       |        | 1600     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT ZILBI INT/16.87 DME/RADAR<br>3. FAC: 272.39 FAF: AGLER INT/6.69 DME/RADAR DIST FAF TO MAP: 4.82 THLD: 4.82<br>4. MIN. ALT: ZILBI 3000, BASHO 3000, AGLER 1600, CONST/4.58 DME/RADAR 900*<br>5. DIST TO THLD FROM OM: 4.82 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1101<br>6. MIN GS INCPT: 1600 GS ALT AT: AGLER 1600 OM: - MM: - IM: -<br>7. GS ANGLE: 3.00 TCH: 57.6<br>8. MSA FROM: DHP VORTAC 090-270 2900, 270-090 2100 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         | MAG VAR: 5W EPOCH YEAR: 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                       |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                            |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |      | ILS: STANDARD                                                                         |        | LOC: @   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | A                                                                          |         | B                                                                                                                                                                                                                                                                                                                                                                    |      |                                                                                       | C      |          |         | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                       | E      |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DH/MDA | VIS                                                                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS  | HAT/HAA                                                                               | DH/MDA | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VIS   | HAT/HAA                               | DH/MDA | VIS | HAT/HAA |
| S-ILS 26L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 208    | 4000                                                                       | 200     | 208                                                                                                                                                                                                                                                                                                                                                                  | 4000 | 200                                                                                   | 208    | 4000     | 200     | 208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4000  | 200                                   |        |     |         |
| S-LOC 26L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 900    | 5500                                                                       | 892     | 900                                                                                                                                                                                                                                                                                                                                                                  | 5500 | 892                                                                                   | 900    | 2 1/2    | 892     | 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 1/2 | 892                                   |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| CONST FIX MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| S-LOC 26L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 420    | 4000                                                                       | 412     | 420                                                                                                                                                                                                                                                                                                                                                                  | 4000 | 412                                                                                   | 420    | 5000     | 412     | 420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5000  | 412                                   |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| NOTES:<br>CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 480.<br>CHART NOTE: DME REQUIRED.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                  |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                       |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                       |        |     |         |
| CITY AND STATE<br>MIAMI, FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | ELEVATION: 9 TDZE: 8<br>AIRPORT NAME:<br>MIAMI INTL                        |         | FACILITY IDENTIFIER:<br>I-VIN                                                                                                                                                                                                                                                                                                                                        |      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 26L, AMDT 16<br>21 JULY 2016 |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | SUP:<br>AMDT: 15C<br>DATED 08/23/2012 |        |     |         |



ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):  
\*LOC ONLY  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 27.  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 26L ALL CATS AND S-LOC 26L CAT C/D.  
CHART NOTE: FOR INOPERATIVE MALSF, INCREASE CONST FIX MINIMUMS: S-LOC 26L CAT C/D VISIBILITY TO RVR 6000.



|                             |                                             |         |                               |                                                                                       |                   |
|-----------------------------|---------------------------------------------|---------|-------------------------------|---------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>MIAMI, FL | ELEVATION: 9<br>AIRPORT NAME:<br>MIAMI INTL | TDZE: 8 | FACILITY IDENTIFIER:<br>I-VIN | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 26L, AMDT 16<br>21 JULY 2016 | SUP:              |
|                             |                                             |         |                               |                                                                                       | AMDT: 15C         |
|                             |                                             |         |                               |                                                                                       | DATED: 08/23/2012 |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KMIA

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ZILBI      | 010        | ZILBI       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E B                        |
| ZILBI      | 020        | BASHO       | CF          | FB    |     | 272.4      | IVIN       |       |             |               |                | AA 03000                           |                                       | EE                         |
|            | 010        | BASHO       | IF          | FB    |     |            | IVIN       |       |             |               |                | AA 03000 GI 01600                  |                                       | E I                        |
|            | 020        | AGLER       | CF          | FB    |     | 272.0      | IVIN       | 3.00  |             | DHP           |                | GI 01600 GS 01600                  |                                       | E F                        |
|            | 030        | RW26L       | CF          | FO    |     | 272.0      | IVIN       | 3.00  |             |               |                | AT 00066                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 272.4      |            |       |             |               |                | AA 00800                           |                                       | M                          |
|            | 050        |             | VI          | FB    |     | 290.0      |            |       |             |               |                |                                    |                                       |                            |
|            | 060        | BRBRA       | CF          | FO    |     | 334.7      | DHP        |       |             |               |                | AA 02000                           |                                       | EY                         |
|            | 070        | BRBRA       | HM          | FO    |     | 154.7      |            |       | R           |               |                | AA 02000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| DHP        | N254759.86 | W0802056.53 |
| IVIN (DME) | N254805.81 | W0801814.94 |
| BRBRA      | N255802.23 | W0802710.87 |
| AGLER      | N254820.37 | W0801050.38 |
| BASHO      | N254832.13 | W0800557.54 |
| ZILBI      | N254847.26 | W0795934.02 |
| IVIN (LOC) | N254802.16 | W0801813.77 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW26L  | N254807.27            | W0801610.33            | 00008                  | 57.6             |

QUALITY  
28  
CHECKED

CITY AND STATE  
MIAMI, FLELEVATION: 9 TDZE: 8  
AIRPORT NAME:  
MIAMI INTLFACILITY  
IDENTIFIER:  
I-VINPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 26L, AMDT 16  
21 JULY 2016SUP:  
AMDT: 15C  
DATED: 08/23/2012

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KMIA

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ZILBI      | 010        | ZILBI       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E B                        |
| ZILBI      | 020        | BASHO       | CF          | FB    |     | 272.4      | IVIN       |       |             |               |                | AA 03000                           |                                       | EE                         |
|            | 010        | BASHO       | IF          | FB    |     |            | IVIN       |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | AGLER       | CF          | FB    |     | 272.0      | IVIN       |       |             | DHP           |                | AA 01600                           |                                       | E F                        |
|            | 021        | CONST       | CF          | FB    |     | 272.0      | IVIN       | 3.01  |             |               |                | AA 00900                           |                                       | E S                        |
|            | 030        | RW26L       | CF          | FO    |     | 272.0      | IVIN       | 3.01  |             |               |                | AT 00066                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 272.4      |            |       |             |               |                | AA 00800                           |                                       | M                          |
|            | 050        |             | VI          | FB    |     | 290.0      |            |       |             |               |                |                                    |                                       |                            |
|            | 060        | BRBRA       | CF          | FO    |     | 334.7      | DHP        |       |             |               |                | AA 02000                           |                                       | EY                         |
|            | 070        | BRBRA       | HM          | FO    |     | 154.7      |            |       | R           |               |                | AA 02000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| DHP        | N254759.86 | W0802056.53 |
| IVIN (DME) | N254805.81 | W0801814.94 |
| BRBRA      | N255802.23 | W0802710.87 |
| AGLER      | N254820.37 | W0801050.38 |
| BASHO      | N254832.13 | W0800557.54 |
| CONST      | N254814.66 | W0801310.92 |
| ZILBI      | N254847.26 | W0795934.02 |
| IVIN (LOC) | N254802.16 | W0801813.77 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW26L  | N254807.27            | W0801610.33            | 00008                  | 57.6             |

QUALITY  
28  
CHECKED

CITY AND STATE  
MIAMI, FL

ELEVATION: 9 TDZE: 8  
AIRPORT NAME:  
MIAMI INTL

FACILITY  
IDENTIFIER:  
I-VIN

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 26L, AMDT 16  
21 JULY 2016

SUP:  
AMDT: 15C  
DATED: 08/23/2012

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|---------|-----------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|--------|------|---------|
| <b>ILS - STANDARD</b><br><b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.29</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                 |         |                       |      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                  |        |      |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | TO              |         | COURSE AND DISTANCE   |      |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTITUDE                               |         | <b>ILS: DA</b><br><b>LOC: 5.14 NM AFTER CHHAZ INT/RADAR</b><br><br><b>CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DHP VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000; OR WHEN DIRECTED BY ATC.</b><br><br><b>ALTERNATE MA: CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 250 AND VKZ R-278 TO CICIV INT/VKZ 19.02 DME AND HOLD. (ADF OR DME REQUIRED).</b><br><br><b>ADDITIONAL FLIGHT DATA:</b><br><b>HOLD W, LT, 109.00 INBOUND.</b><br><b>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E CICIV INT/VKZ 19.02 DME, RT, 278.00 INBOUND.</b><br><b>CHART FAS OBST: 310 BLDG 254720N/0801356W</b><br><b>CHART IN PLANVIEW: CICIV INT/VKZ 19.02 DME.</b><br><b>549 BLDG 254738N/0801219W. (DO NOT CHART)</b> |      |                  |        |      |         |
| HENDN INT/RADAR (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | SARCO INT/RADAR |         | 272.39 / 4.84 (I-MIA) |      |                                                                                                                                                                                                                                                                                                                                                                      |        | 3000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
| SARCO INT/RADAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | CHHAZ INT/RADAR |         | 272.39 / 4.12 (I-MIA) |      |                                                                                                                                                                                                                                                                                                                                                                      |        | 1700                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. <b>PROFILE STARTS AT HENDN</b><br>3. FAC: <u>272.39</u> FAF: <u>CHHAZ INT/RADAR</u> DIST FAF TO MAP: <u>5.14</u> THLD: <u>5.14</u><br>4. MIN. ALT: <u>HENDN 3000, SARCO 3000, CHHAZ 1700, TINKE INT/RADAR 1300*</u><br>5. DIST TO THLD FROM OM: <u>5.14</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1056</u><br>6. MIN GS INCPT: <u>1700</u> GS ALT AT: <u>CHHAZ 1700</u> OM: <u>-</u> MM: <u>-</u> IM: <u>-</u><br>7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u><br>8. MSA FROM: <u>DHP VORTAC 090-270 2900, 270-090 2100</u> |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         | MAG VAR: 5W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | EPOCH YEAR: 2000 |        |      |         |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTERNATE: N A                         |         | ILS: STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | LOC: @           |        |      |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | A               |         | B                     |      | C                                                                                                                                                                                                                                                                                                                                                                    |        | D                                      |         | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                  |        |      |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DH/MDA | VIS             | HAT/HAA | DH/MDA                | VIS  | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VIS  | HAT/HAA          | DH/MDA | VIS  | HAT/HAA |
| S-ILS 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 208    | 2400            | 200     | 208                   | 2400 | 200                                                                                                                                                                                                                                                                                                                                                                  | 208    | 2400                                   | 200     | 208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2400 | 200              | 208    | 2400 | 200     |
| S-LOC 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1300   | 4000            | 1292    | 1300                  | 4000 | 1292                                                                                                                                                                                                                                                                                                                                                                 | 1300   | 3                                      | 1292    | 1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3    | 1292             | 1300   | 3    | 1292    |
| <b>TINKE FIX MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
| S-LOC 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 560    | 2400            | 552     | 560                   | 2400 | 552                                                                                                                                                                                                                                                                                                                                                                  | 560    | 6000                                   | 552     | 560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6000 | 552              | 560    | 6000 | 552     |
| NOTES:<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>*LOC ONLY<br>CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 26L AND RNAV (GPS) RWY 26R.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                                                                                                     |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                  |        |      |         |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | ELEVATION: 9    |         | TDZE: 8               |      | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                 |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | SUP:             |        |      |         |
| MIAMI, FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | AIRPORT NAME:   |         | MIAMI INTL            |      | I-MIA                                                                                                                                                                                                                                                                                                                                                                |        | ILS OR LOC RWY 27, AMDT 26             |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | AMDT: 25B        |        |      |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                 |         |                       |      |                                                                                                                                                                                                                                                                                                                                                                      |        | 21 JULY 2016                           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | DATED 12/11/2014 |        |      |         |





ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):  
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 27 CAT E VISIBILITY TO RVR 4000 AND TINKE FIX  
MINIMUMS S-LOC 27 CAT E VISIBILITY TO 1 5/8 MILE.  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC 27 CATS C/D/E.



|                             |                                             |         |                               |                                                                                       |                   |
|-----------------------------|---------------------------------------------|---------|-------------------------------|---------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>MIAMI, FL | ELEVATION: 9<br>AIRPORT NAME:<br>MIAMI INTL | TDZE: 8 | FACILITY IDENTIFIER:<br>I-MIA | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 27, AMDT 26<br>21 JULY 2016 | SUP:              |
|                             |                                             |         |                               |                                                                                       | AMDT: 25B         |
|                             |                                             |         |                               |                                                                                       | DATED: 12/11/2014 |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KMIA

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| HENDN      | 010        | HENDN       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E B                        |
| HENDN      | 020        | SARCO       | CF          | FB    |     | 272.4      | IMIA       |       |             |               |                | AA 03000                           |                                       | EE                         |
|            | 010        | SARCO       | IF          | FB    |     |            | IMIA       |       |             |               |                | AA 03000 GI 01700                  |                                       | E I                        |
|            | 020        | CHHAZ       | CF          | FB    |     | 272.0      | IMIA       | 3.00  |             | DHP           |                | GI 01700 GS 01700                  |                                       | E F                        |
|            | 030        | RW27        | CF          | FO    |     | 272.0      | IMIA       | 3.00  |             |               |                | AT 00063                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 272.4      |            |       |             |               |                | AA 00600                           |                                       | M                          |
|            | 050        | DHP         | DF          | FO    |     |            |            |       |             |               |                | AA 03000                           |                                       | VY                         |
|            | 060        | DHP         | HM          | FO    |     | 109.0      |            |       | L           |               |                | AA 03000                           |                                       | VE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| DHP        | N254759.86 | W0802056.53 |
| CHHAZ      | N254729.69 | W0801052.69 |
| HENDN      | N254753.48 | W0800058.11 |
| SARCO      | N254740.72 | W0800619.28 |
| IMIA (LOC) | N254709.39 | W0801906.61 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW27   | N254715.72            | W0801634.02            | 00008                  | 55.0             |

QUALITY  
28  
CHECKED

CITY AND STATE  
MIAMI, FL

ELEVATION: 9 TDZE: 8  
AIRPORT NAME:  
MIAMI INTL

FACILITY  
IDENTIFIER:  
I-MIA

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 27, AMDT 26  
21 JULY 2016

SUP:  
AMDT: 25B  
DATED: 12/11/2014

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KMIA

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| HENDN      | 010        | HENDN       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E B                        |
| HENDN      | 020        | SARCO       | CF          | FB    |     | 272.4      | IMIA       |       |             |               |                | AA 03000                           |                                       | EE                         |
|            | 010        | SARCO       | IF          | FB    |     |            | IMIA       |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | CHHAZ       | CF          | FB    |     | 272.0      | IMIA       |       |             | DHP           |                | AA 01700                           |                                       | E F                        |
|            | 021        | TINKE       | CF          | FB    |     | 272.0      | IMIA       | 3.01  |             |               |                | AA 01300                           |                                       | E S                        |
|            | 030        | RW27        | CF          | FO    |     | 272.0      | IMIA       | 3.01  |             |               |                | AT 00063                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 272.4      |            |       |             |               |                | AA 00600                           |                                       | M                          |
|            | 050        | DHP         | DF          | FO    |     |            |            |       |             |               |                | AA 03000                           |                                       | VY                         |
|            | 060        | DHP         | HM          | FO    |     | 109.0      |            |       | L           |               |                | AA 03000                           |                                       | VE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| DHP        | N254759.86 | W0802056.53 |
| CHHAZ      | N254729.69 | W0801052.69 |
| HENDN      | N254753.48 | W0800058.11 |
| SARCO      | N254740.72 | W0800619.28 |
| TINKE      | N254726.34 | W0801215.03 |
| IMIA (LOC) | N254709.39 | W0801906.61 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW27   | N254715.72            | W0801634.02            | 00008                  | 55.0             |

QUALITY  
28  
CHECKED

CITY AND STATE  
**MIAMI, FL**

ELEVATION: **9** TDZE: **8**  
AIRPORT NAME:  
**MIAMI INTL**

FACILITY  
IDENTIFIER:  
**I-MIA**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**ILS OR LOC RWY 27, AMDT 26**  
21 JULY 2016

SUP:  
AMDT: **25B**  
DATED: **12/11/2014**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|-----------------------------|-------|------------------------------------------------------------------------|--------|---------------------------|---------|--------|-------|----------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                  |        |       |         |                             |       | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |       |         | TO                          |       |                                                                        |        | COURSE AND DISTANCE       |         |        |       | ALTITUDE                               |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW26R<br><br>CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT BRBRA AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 155.68 INBOUND.<br>CHART FAS OBST: 218 TOWER 254837N/0801414W<br>709 BLDG 254713N/0801112W. (DO NOT CHART)<br>310 BLDG 254742N/0801340W. (DO NOT CHART)<br>549 BLDG 254738N/0801219W. (DO NOT CHART)<br>DISTANCE TO THLD FROM 257 HAT: 0.62 NM.<br>CHART VDP AT 1.29 NM TO RW26R*<br>*LNAV ONLY.<br>WAAS CHANNEL # 86903<br>REFERENCE PATH ID: W26A<br>CHART IN PLANVIEW KOPF.<br>LTP HAE: -22.7 M |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NAYIB (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |       |         | ZARER (FB)                  |       |                                                                        |        | 272.47 / 6.00             |         |        |       | 1500                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| ZARER (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |       |         | PATLY/2.30 NM TO RW26R (FB) |       |                                                                        |        | 272.43 / 2.20             |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| PATLY/2.30 NM TO RW26R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |       |         | RW26R (MAP) (FO)            |       |                                                                        |        | 272.43 / 2.30             |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| RW26R (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |       |         | 800 MSL                     |       |                                                                        |        | 272.43                    |         |        |       | 800                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 800 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |       |         | BRBRA (FO)                  |       |                                                                        |        |                           |         |        |       | 3000                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT NAYIB<br>3. FAC: 272.43 FAF: ZARER DIST FAF TO MAP: 4.50 THLD: 4.50<br>4. MIN. ALT: NAYIB 3000, ZARER 1500, PATLY/2.30 NM TO RW26R 800*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 1500 GS ALT AT: ZARER 1500 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 60.0 34:1 IS CLEAR<br>8. MSA FROM: RW26R 2900 |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | MAG VAR: 5W EPOCH YEAR: 2000                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       | ALTERNATE: N A                         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | STANDARD                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | A     |         |                             | B     |                                                                        |        | C                         |         |        | D     |                                        |        | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DH/MDA | VIS   | HAT/HAA | DH/MDA                      | VIS   | HAT/HAA                                                                | DH/MDA | VIS                       | HAT/HAA | DH/MDA | VIS   | HAT/HAA                                | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 265    | 3/4   | 257     | 265                         | 3/4   | 257                                                                    | 265    | 3/4                       | 257     | 265    | 3/4   | 257                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 433    | 1 3/8 | 425     | 433                         | 1 3/8 | 425                                                                    | 433    | 1 3/8                     | 425     | 433    | 1 3/8 | 425                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 480    | 1     | 472     | 480                         | 1     | 472                                                                    | 480    | 1 3/8                     | 472     | 480    | 1 3/8 | 472                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 6C (43F) OR ABOVE 54C (130F).<br>CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 27.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: RADAR REQUIRED.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                     |        |       |         |                             |       |                                                                        |        |                           |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         | ELEVATION: 9 TDZE: 8        |       |                                                                        |        | FACILITY IDENTIFIER: RNAV |         |        |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | SUP:                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |
| MIAMI, FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |       |         | AIRPORT NAME:               |       |                                                                        |        |                           |         |        |       | RNAV (GPS) RWY 26R, AMDT 3             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | AMDT: 2A                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |         | MIAMI INTL                  |       |                                                                        |        |                           |         |        |       | 21 JULY 2016                           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | DATED 12/11/2014                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |

QUALITY  
 14  
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY  
14  
CHECKED

|                                 |                                                 |         |                                     |                                                                                              |                   |
|---------------------------------|-------------------------------------------------|---------|-------------------------------------|----------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>MIAMI, FL | ELEVATION: 9<br>AIRPORT NAME:<br><br>MIAMI INTL | TDZE: 8 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 26R, AMDT 3<br><br>21 JULY 2016 | SUP:              |
|                                 |                                                 |         |                                     |                                                                                              | AMDT: 2A          |
|                                 |                                                 |         |                                     |                                                                                              | DATED: 12/11/2014 |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMIA          |
| RUNWAY                                   | RW26R         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W26A          |
| LTP/FTP LATITUDE                         | 254814.3215N  |
| LTP/FTP LONGITUDE                        | 0801631.5490W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00227        |
| FPAP LATITUDE                            | 254810.2425N  |
| FPAP LONGITUDE                           | 0801810.1735W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00060.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0128          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

FC0DA738

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +00025 |
| FPAP ORTHOMETRIC HEIGHT | +00025 |

QUALITY  
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|                                 |                                                 |         |                                     |                                                                                              |                   |
|---------------------------------|-------------------------------------------------|---------|-------------------------------------|----------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>MIAMI, FL | ELEVATION: 9<br>AIRPORT NAME:<br><br>MIAMI INTL | TDZE: 8 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 26R, AMDT 3<br><br>21 JULY 2016 | SUP:              |
|                                 |                                                 |         |                                     |                                                                                              | AMDT: 2A          |
|                                 |                                                 |         |                                     |                                                                                              | DATED: 12/11/2014 |

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |             |             |       |                       |            |            |       |                        |                        |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|------------|-------------|-------------|-------|-----------------------|------------|------------|-------|------------------------|------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |             |             |       |                       |            |            |       |                        |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |             |             |       |                       |            |            |       |                        |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KMIA                                                |            |             |             |       |                       |            |            |       |                        |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |            |             |             |       |                       |            |            |       |                        |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP                   | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR            | CENTER<br>FIX          | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|                                                                     | 010        | NAYIB       | IF          | FB    |                       |            |            |       |                        |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                     | 020        | ZARER       | TF          | FB    | 1.0                   | 272.5      |            |       |                        | RW26R                  |                | AA 01500                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 021        | PATLY       | TF          | FB    |                       | 0.3        | 272.4      | 3.00  |                        |                        |                | AA 00800 GS 00801                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                     | 030        | RW26R       | TF          | FO    | 0.3                   | 272.4      |            | 3.00  |                        |                        |                | AT 00068                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040        |             | CA          | FB    |                       | 272.4      |            |       |                        |                        |                | AA 00800                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050        | BRBRA       | DF          | FO    |                       |            |            |       | R                      |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 060        | BRBRA       | HM          | FO    |                       | 155.7      |            |       | R                      |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |            |             |             |       |                       |            |            |       |                        |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          |            |             |             |       | LATITUDE              |            |            |       |                        | LONGITUDE              |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BRBRA                                                               |            |             |             |       | N255802.23            |            |            |       |                        | W0802710.87            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| NAYIB                                                               |            |             |             |       | N254842.63            |            |            |       |                        | W0800454.15            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| PATLY                                                               |            |             |             |       | N254820.60            |            |            |       |                        | W0801358.79            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ZARER                                                               |            |             |             |       | N254826.56            |            |            |       |                        | W0801132.91            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |            |             |             |       |                       |            |            |       |                        |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              |            |             |             |       | THRESHOLD<br>LATITUDE |            |            |       |                        | THRESHOLD<br>LONGITUDE |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW26R                                                               |            |             |             |       | N254814.32            |            |            |       |                        | W0801631.55            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|                                                                     |            |             |             |       |                       |            |            |       | THRESHOLD<br>ELEVATION |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|                                                                     |            |             |             |       |                       |            |            |       | 00008                  |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|                                                                     |            |             |             |       |                       |            |            |       | PROCEDURE<br>TCH       |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|                                                                     |            |             |             |       |                       |            |            |       | 60                     |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
14  
CHECKED

|                                    |                                                                                                                 |                                                                               |                                                                                                                                                                            |                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| CITY AND STATE<br><b>MIAMI, FL</b> | ELEVATION: <b>9</b> <b>TDZE: 8</b><br>AIRPORT NAME:<br><div style="text-align: center;"><b>MIAMI INTL</b></div> | FACILITY<br>IDENTIFIER:<br><div style="text-align: center;"><b>RNAV</b></div> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>RNAV (GPS) RWY 26R, AMDT 3</b></div> <div style="text-align: center;">21 JULY 2016</div> | SUP:<br><hr/> AMDT: <b>2A</b><br><hr/> DATED: <b>12/11/2014</b> |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                         |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------|---------|-----------------------------------------------------------------------------|------------------------------|---------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|--------------------------------------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                      |        |                                                     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                              |         |                                                                                        | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                         |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 | MISSED APPROACH              |       |                                      |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                    |        | TO                                                  |         | COURSE AND DISTANCE                                                         |                              |         | ALTITUDE                                                                               |                                                                                                                                                                                                                                                                                                                                                                      | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW26L                                                                                                                                                                                                                                                                                                                         |                              |       |                                      |        |     |         |
| HILEY                                                                                                                                                                                                                                                                                                                                   |        | MANTY (FB)                                          |         | 155.97 / 20.89                                                              |                              |         | 3000                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      | CLIMB TO 2000 DIRECT LAWNN AND ON TRACK 344.83 TO BRBRA AND HOLD.                                                                                                                                                                                                                                                                                               |                              |       |                                      |        |     |         |
| MANTY (IAF)                                                                                                                                                                                                                                                                                                                             |        | ZILBI (FB)                                          |         | 233.12 / 12.16                                                              |                              |         | 3000                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| FLIPR (IAF)                                                                                                                                                                                                                                                                                                                             |        | ZILBI (FB)                                          |         | 335.46 / 28.91                                                              |                              |         | 3000                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| ZILBI (IF)                                                                                                                                                                                                                                                                                                                              |        | BASHO (FB)                                          |         | 272.53 / 5.77                                                               |                              |         | 3000                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| BASHO                                                                                                                                                                                                                                                                                                                                   |        | AGLER (FB)                                          |         | 272.48 / 4.41                                                               |                              |         | 1600                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| AGLER (FAF)                                                                                                                                                                                                                                                                                                                             |        | EMBRA/3.50 NM TO RW26L (FB)                         |         | 272.43 / 1.32                                                               |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      | ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 155.68 INBOUND.<br>CHART FAS OBST: 310 BLDG 254742N/0801340W<br>549 BLDG 254738N/0801219W (DO NOT CHART)<br>649 BLDG 254818N/0801142W (DO NOT CHART)<br>DISTANCE TO THLD FROM 200 HAT: 0.45 NM.<br>CHART VDP AT 1.50 NM TO RW26L*<br>*LNAV ONLY.<br>WAAS CHANNEL # 81905<br>REFERENCE PATH ID: W26B<br>LTP HAE: -22.9 M |                              |       |                                      |        |     |         |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                      |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                    |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 | MAG VAR: 5W EPOCH YEAR: 2000 |       |                                      |        |     |         |
| 2. PROFILE STARTS AT ZILBI                                                                                                                                                                                                                                                                                                              |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 3. FAC: 272.43 FAF: AGLER DIST FAF TO MAP: 4.82 THLD: 4.82                                                                                                                                                                                                                                                                              |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 4. MIN. ALT: ZILBI 3000, BASHO 3000, AGLER 1600, EMBRA/3.50 NM TO RW26L 1180*                                                                                                                                                                                                                                                           |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                          |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 6. MIN GS INCPT: 1600 GS ALT AT: AGLER 1600 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                               |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 7. GS ANGLE: 3.00 TCH: 57.6 34:1 IS CLEAR                                                                                                                                                                                                                                                                                               |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| 8. MSA FROM: RW26L 2900                                                                                                                                                                                                                                                                                                                 |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                         |        |                                                     |         |                                                                             |                              |         | ALTERNATE: N A                                                                         |                                                                                                                                                                                                                                                                                                                                                                      | STANDARD                                                                                                                                                                                                                                                                                                                                                        |                              |       |                                      |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                         |        | A                                                   |         | B                                                                           |                              |         | C                                                                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 | D                            |       |                                      | E      |     |         |
|                                                                                                                                                                                                                                                                                                                                         | DH/MDA | VIS                                                 | HAT/HAA | DH/MDA                                                                      | VIS                          | HAT/HAA | DH/MDA                                                                                 | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA                                                                                                                                                                                                                                                                                                                                                         | DH/MDA                       | VIS   | HAT/HAA                              | DH/MDA | VIS | HAT/HAA |
| LPV DA                                                                                                                                                                                                                                                                                                                                  | 208    | 4000                                                | 200     | 208                                                                         | 4000                         | 200     | 208                                                                                    | 4000                                                                                                                                                                                                                                                                                                                                                                 | 200                                                                                                                                                                                                                                                                                                                                                             | 208                          | 4000  | 200                                  |        |     |         |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                            | 348    | 4500                                                | 340     | 348                                                                         | 4500                         | 340     | 348                                                                                    | 4500                                                                                                                                                                                                                                                                                                                                                                 | 340                                                                                                                                                                                                                                                                                                                                                             | 348                          | 4500  | 340                                  |        |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                | 560    | 4000                                                | 552     | 560                                                                         | 4000                         | 552     | 560                                                                                    | 1 3/8                                                                                                                                                                                                                                                                                                                                                                | 552                                                                                                                                                                                                                                                                                                                                                             | 560                          | 1 3/8 | 552                                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                         |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
|                                                                                                                                                                                                                                                                                                                                         |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
|                                                                                                                                                                                                                                                                                                                                         |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| NOTES:<br>CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 6C (43F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2) |        |                                                     |         |                                                                             |                              |         |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       |                                      |        |     |         |
| CITY AND STATE<br>MIAMI, FL                                                                                                                                                                                                                                                                                                             |        | ELEVATION: 9 TDZE: 8<br>AIRPORT NAME:<br>MIAMI INTL |         |                                                                             | FACILITY IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) Z RWY 26L, AMDT 2<br>21 JULY 2016 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                              |       | SUP:<br>AMDT: 1B<br>DATED 04/04/2013 |        |     |         |





US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES, (CONT.):

| FROM                   | TO               | COURSE AND DISTANCE | ALTITUDE |
|------------------------|------------------|---------------------|----------|
| EMBRA/3.50 NM TO RW26L | RW26L (MAP) (FO) | 272.43 / 3.50       |          |
| RW26L (MAP)            | 208 MSL          | 272.43              |          |
| 208 MSL                | LAWNN (FB)       |                     |          |
| LAWNN                  | BRBRA (FO)       | 344.83 / 10.84      | 2000     |

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSF, INCREASE LNAV/VNAV CAT D VISIBILITY TO RVR 6000 AND LNAV CAT D VISIBILITY TO 1 5/8 MILE.

QUALITY  
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|                                    |                                                    |         |                                        |                                                                                                |                          |
|------------------------------------|----------------------------------------------------|---------|----------------------------------------|------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>MIAMI, FL</b> | ELEVATION: 9<br>AIRPORT NAME:<br><b>MIAMI INTL</b> | TDZE: 8 | FACILITY<br>IDENTIFIER:<br><b>RNAV</b> | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br><b>RNAV (GPS) Z RWY 26L, AMDT 2</b><br>21 JULY 2016 | SUP:                     |
|                                    |                                                    |         |                                        |                                                                                                | AMDT: <b>1B</b>          |
|                                    |                                                    |         |                                        |                                                                                                | DATED: <b>04/04/2013</b> |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMIA          |
| RUNWAY                                   | RW26L         |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Z             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W26B          |
| LTP/FTP LATITUDE                         | 254807.2670N  |
| LTP/FTP LONGITUDE                        | 0801610.3290W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00229        |
| FPAP LATITUDE                            | 254802.5150N  |
| FPAP LONGITUDE                           | 0801805.1605W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00057.6       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |
| <br><u>CRC REMAINDER</u>                 | <br>D5333053  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +00025 |
| FPAP ORTHOMETRIC HEIGHT | +00025 |

QUALITY  
14  
CHECKED

|                                 |                                                 |                     |                                                                                                |                   |
|---------------------------------|-------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>MIAMI, FL | ELEVATION: 9<br>AIRPORT NAME:<br><br>MIAMI INTL | TDZE: 8<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) Z RWY 26L, AMDT 2<br><br>21 JULY 2016 | SUP:              |
|                                 |                                                 |                     |                                                                                                | AMDT: 1B          |
|                                 |                                                 |                     |                                                                                                | DATED: 04/04/2013 |

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |             |                       |       |     |                        |            |       |                        |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|------------|-------------|-----------------------|-------|-----|------------------------|------------|-------|------------------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KMIA                                                |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE           | FB/FO | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE | TURN<br>DIR            | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| FLIPR                                                               | 010        | FLIPR       | IF                    | FB    |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| FLIPR                                                               | 020        | ZILBI       | TF                    | FB    | 1.0 | 335.5                  |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| HILEY                                                               | 010        | HILEY       | IF                    | FB    |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
| HILEY                                                               | 020        | MANTY       | TF                    | FB    | 2.0 | 156.0                  |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| HILEY                                                               | 030        | ZILBI       | TF                    | FB    | 1.0 | 233.1                  |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                     | 010        | ZILBI       | IF                    | FB    |     |                        |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                     | 011        | BASHO       | TF                    | FB    | 1.0 | 272.5                  |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
|                                                                     | 020        | AGLER       | TF                    | FB    | 1.0 | 272.5                  |            |       |                        | RW26L         |                | AA 01600                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 021        | EMBRA       | TF                    | FB    | 0.3 | 272.4                  |            | 3.00  |                        |               |                | AA 01180 GS 01192                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                     | 030        | RW26L       | TF                    | FO    | 0.3 | 272.4                  |            | 3.00  |                        |               |                | AT 00066                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040        |             | CA                    | FB    |     | 272.4                  |            |       |                        |               |                | AA 00208                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050        | LAWNN       | DF                    | FB    |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
|                                                                     | 060        | BRBRA       | TF                    | FO    | 1.0 | 344.8                  |            |       |                        |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 070        | BRBRA       | HM                    | FO    |     | 155.7                  |            |       | R                      |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          |            |             | LATITUDE              |       |     | LONGITUDE              |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BRBRA                                                               |            |             | N255802.23            |       |     | W0802710.87            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HILEY                                                               |            |             | N261515.81            |       |     | W0800047.10            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| AGLER                                                               |            |             | N254820.37            |       |     | W0801050.38            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BASHO                                                               |            |             | N254832.13            |       |     | W0800557.54            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| EMBRA                                                               |            |             | N254816.76            |       |     | W0801217.88            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIPR                                                               |            |             | N252334.49            |       |     | W0794346.44            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| LAWNN                                                               |            |             | N254750.14            |       |     | W0802302.07            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| MANTY                                                               |            |             | N255655.99            |       |     | W0794932.31            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ZILBI                                                               |            |             | N254847.26            |       |     | W0795934.02            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              |            |             | THRESHOLD<br>LATITUDE |       |     | THRESHOLD<br>LONGITUDE |            |       | THRESHOLD<br>ELEVATION |               |                | PROCEDURE<br>TCH                                                                                                                                                                                                                                                                                                                                                     |                                       |                            |
| RW26L                                                               |            |             | N254807.27            |       |     | W0801610.33            |            |       | 00008                  |               |                | 58                                                                                                                                                                                                                                                                                                                                                                   |                                       |                            |

QUALITY  
14  
CHECKED

|                                    |                                    |                |                      |                                            |                          |
|------------------------------------|------------------------------------|----------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>MIAMI, FL</b> | ELEVATION: <b>9</b>                | TDZE: <b>8</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                    | AIRPORT NAME:<br><b>MIAMI INTL</b> |                | <b>RNAV</b>          | <b>RNAV (GPS) Z RWY 26L, AMDT 2</b>        | AMDT: <b>1B</b>          |
|                                    |                                    |                |                      | 21 JULY 2016                               | DATED: <b>04/04/2013</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------|--------|----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|------------------|------|---------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | TO                         |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |      |                           |        | ALTITUDE                               |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW27<br><br>CLIMB TO 2000 DIRECT TUHWU AND ON TRACK 341.98 TO BRBRA AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 155.68 INBOUND.<br>CHART FAS OBST: 310 BLDG 254720N/0801356W<br>DISTANCE TO THLD FROM 208 HAT: 0.45 NM.<br>CHART VDP AT 1.50 NM TO RW27*<br>*LNAV ONLY.<br>WAAS CHANNEL # 40205<br>REFERENCE PATH ID: W27A<br>549 BLDG 254734N/0801217W. (DO NOT CHART)<br>LTP HAE: -22.9 M |      |                  |                  |      |         |  |
| HILEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | MANTY (FB)                 |         | 155.97 / 20.89                                                                                                                                                                                                                                                                                                                                                       |      |                           |        | 3000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| MANTY (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | HENDN (FB)                 |         | 233.87 / 13.69                                                                                                                                                                                                                                                                                                                                                       |      |                           |        | 3000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| FLIPR (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | ONICO (FB)                 |         | 332.39 / 18.80                                                                                                                                                                                                                                                                                                                                                       |      |                           |        | 3000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| ONICO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | HENDN (FB)                 |         | 332.31 / 10.00                                                                                                                                                                                                                                                                                                                                                       |      |                           |        | 3000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| HENDN (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | SARCO (FB)                 |         | 272.51 / 4.84                                                                                                                                                                                                                                                                                                                                                        |      |                           |        | 3000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| SARCO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | CHHAZ (FB)                 |         | 272.46 / 4.12                                                                                                                                                                                                                                                                                                                                                        |      |                           |        | 1700                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| CHHAZ (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | TINKE/3.90 NM TO RW27 (FB) |         | 272.43 / 1.24                                                                                                                                                                                                                                                                                                                                                        |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT HENDN<br>3. FAC: 272.43 FAF: CHHAZ DIST FAF TO MAP: 5.14 THLD: 5.14<br>4. MIN. ALT: HENDN 3000, SARCO 3000, CHHAZ 1700, TINKE/3.90 NM TO RW27 1300*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 1700 GS ALT AT: CHHAZ 1700 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR<br>8. MSA FROM: RW27 2900 |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         | MAG VAR: 5W                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                  | EPOCH YEAR: 2000 |      |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        | ALTERNATE: N A                         |         | STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                  |                  |      |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | A                          |         |                                                                                                                                                                                                                                                                                                                                                                      | B    |                           |        | C                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            | D    |                  |                  | E    |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DH/MDA | VIS                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS  | HAT/HAA                   | DH/MDA | VIS                                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                     | VIS  | HAT/HAA          | DH/MDA           | VIS  | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 208    | 2400                       | 200     | 208                                                                                                                                                                                                                                                                                                                                                                  | 2400 | 200                       | 208    | 2400                                   | 200     | 208                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2400 | 200              | 208              | 2400 | 200     |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 440    | 5000                       | 432     | 440                                                                                                                                                                                                                                                                                                                                                                  | 5000 | 432                       | 440    | 5000                                   | 432     | 440                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5000 | 432              | 440              | 5000 | 432     |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 560    | 2400                       | 552     | 560                                                                                                                                                                                                                                                                                                                                                                  | 2400 | 552                       | 560    | 6000                                   | 552     | 560                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6000 | 552              | 560              | 6000 | 552     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 6C (43F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 MILE, AND LNAV CAT E VISIBILITY TO 1 5/8 MILE.                                                                                                   |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                  |                  |      |         |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | ELEVATION: 9 TDZE: 8       |         |                                                                                                                                                                                                                                                                                                                                                                      |      | FACILITY IDENTIFIER: RNAV |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | SUP:             |                  |      |         |  |
| MIAMI, FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | AIRPORT NAME: MIAMI INTL   |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        | RNAV (GPS) Z RWY 27, AMDT 3            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | AMDT: 2          |                  |      |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |      |                           |        | 21 JULY 2016                           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | DATED 07/30/2009 |                  |      |         |  |

QUALITY  
14  
CHECKED

**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| <u>FROM</u>           | <u>TO</u>       | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-----------------------|-----------------|----------------------------|-----------------|
| TINKE/3.90 NM TO RW27 | RW27 (MAP) (FO) | 272.43 / 3.90              |                 |
| RW27 (MAP)            | 208 MSL         | 272.43                     |                 |
| 208 MSL               | TUHWU           |                            |                 |
| TUHWU                 | BRBRA (FO)      | 341.98 / 11.92             |                 |

QUALITY  
14  
CHECKED

CITY AND STATE  
**MIAMI, FL**

**ELEVATION: 9**      **TDZE: 8**  
 AIRPORT NAME:  
**MIAMI INTL**

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
**RNAV (GPS) Z RWY 27, AMDT 3**  
 21 JULY 2016

SUP:  
 AMDT: **2**  
 DATED: **07/30/2009**

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMIA          |
| RUNWAY                                   | RW27          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Z             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W27A          |
| LTP/FTP LATITUDE                         | 254715.7155N  |
| LTP/FTP LONGITUDE                        | 0801634.0205W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00229        |
| FPAP LATITUDE                            | 254709.9405N  |
| FPAP LONGITUDE                           | 0801853.4180W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00055.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |

**CRC REMAINDER**

C9E53F54

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +00025 |
| FPAP ORTHOMETRIC HEIGHT | +00025 |

QUALITY  
14  
CHECKED

|                                 |                                                 |         |                                     |                                                                                               |                   |
|---------------------------------|-------------------------------------------------|---------|-------------------------------------|-----------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>MIAMI, FL | ELEVATION: 9<br>AIRPORT NAME:<br><br>MIAMI INTL | TDZE: 8 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) Z RWY 27, AMDT 3<br><br>21 JULY 2016 | SUP:              |
|                                 |                                                 |         |                                     |                                                                                               | AMDT: 2           |
|                                 |                                                 |         |                                     |                                                                                               | DATED: 07/30/2009 |

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> |            |                       |             |       |     |                        |            |       |             |                        |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------|-------|-----|------------------------|------------|-------|-------------|------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| ARINC SUMMARY - KMIA                                                                                                                                                                                 |            |                       |             |       |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                                                                                                                                                               |            |                       |             |       |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                           | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX          | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| FLIPR                                                                                                                                                                                                | 010        | FLIPR                 | IF          | FB    |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| FLIPR                                                                                                                                                                                                | 020        | ONICO                 | TF          | FB    | 1.0 | 332.4                  |            |       |             |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| FLIPR                                                                                                                                                                                                | 030        | HENDN                 | TF          | FB    | 1.0 | 332.3                  |            |       |             |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| HILEY                                                                                                                                                                                                | 010        | HILEY                 | IF          | FB    |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
| HILEY                                                                                                                                                                                                | 020        | MANTY                 | TF          | FB    | 2.0 | 156.0                  |            |       |             |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| HILEY                                                                                                                                                                                                | 030        | HENDN                 | TF          | FB    | 1.0 | 233.9                  |            |       |             |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                                                                                                                                                      | 010        | HENDN                 | IF          | FB    |     |                        |            |       |             |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                                                                                                                                                      | 011        | SARCO                 | TF          | FB    | 1.0 | 272.5                  |            |       |             |                        |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
|                                                                                                                                                                                                      | 020        | CHHAZ                 | TF          | FB    | 1.0 | 272.5                  |            |       |             | RW27                   |                | AA 01700                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                                                                                                                                                      | 021        | TINKE                 | TF          | FB    | 0.3 | 272.4                  |            | 3.00  |             |                        |                | AA 01300 GS 01305                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                                                                                                                                                      | 030        | RW27                  | TF          | FO    | 0.3 | 272.4                  |            | 3.00  |             |                        |                | AT 00063                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                                      | 040        |                       | CA          | FB    |     | 272.4                  |            |       |             |                        |                | AA 00208                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                                                                                                                                                      | 050        | TUHWU                 | DF          | FB    |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
|                                                                                                                                                                                                      | 060        | BRBRA                 | TF          | FO    | 1.0 | 342.0                  |            |       |             |                        |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                                                                                                                                                      | 070        | BRBRA                 | HM          | FO    |     | 155.7                  |            |       | R           |                        |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                                                                                                                                                               |            |                       |             |       |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                           |            | LATITUDE              |             |       |     | LONGITUDE              |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BRBRA                                                                                                                                                                                                |            | N255802.23            |             |       |     | W0802710.87            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HILEY                                                                                                                                                                                                |            | N261515.81            |             |       |     | W0800047.10            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CHHAZ                                                                                                                                                                                                |            | N254729.69            |             |       |     | W0801052.69            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIPR                                                                                                                                                                                                |            | N252334.49            |             |       |     | W0794346.44            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HENDN                                                                                                                                                                                                |            | N254753.48            |             |       |     | W0800058.11            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| MANTY                                                                                                                                                                                                |            | N255655.99            |             |       |     | W0794932.31            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ONICO                                                                                                                                                                                                |            | N253927.09            |             |       |     | W0795459.09            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| SARCO                                                                                                                                                                                                |            | N254740.72            |             |       |     | W0800619.28            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TINKE                                                                                                                                                                                                |            | N254726.34            |             |       |     | W0801215.03            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TUHWU                                                                                                                                                                                                |            | N254702.13            |             |       |     | W0802200.53            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                              |            |                       |             |       |     |                        |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                               |            | THRESHOLD<br>LATITUDE |             |       |     | THRESHOLD<br>LONGITUDE |            |       |             | THRESHOLD<br>ELEVATION |                |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE<br>TCH                      |                            |
| RW27                                                                                                                                                                                                 |            | N254715.72            |             |       |     | W0801634.02            |            |       |             | 00008                  |                |                                                                                                                                                                                                                                                                                                                                                                      | 55                                    |                            |

QUALITY  
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|                                                                               |                                                                                                                 |                                                                                   |                                                                                                                                                                                |                                                                |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| CITY AND STATE<br><br><div style="text-align: center;"><b>MIAMI, FL</b></div> | ELEVATION: <b>9</b> <b>TDZE: 8</b><br>AIRPORT NAME:<br><div style="text-align: center;"><b>MIAMI INTL</b></div> | FACILITY<br>IDENTIFIER:<br><br><div style="text-align: center;"><b>RNAV</b></div> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>RNAV (GPS) Z RWY 27, AMDT 3</b></div><br><div style="text-align: center;">21 JULY 2016</div> | SUP:<br><hr/> AMDT: <b>2</b><br><hr/> DATED: <b>07/30/2009</b> |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|----------------------------|--------------------------|------|----------------------------------------------------------------------------------------------|--------|---------------------------|----------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|------------------|--|--------------------------------------------|--|--|--|--|--|
| <b>US DEPARTMENT OF TRANSPORTATION<br/>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                            |                          |      | <b>RNAV (RNP) - STANDARD,<br/>INSTRUMENT APPROACH PROCEDURE,<br/>TITLE 14 CFR PART 97.33</b> |        |                           |                |        |      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |     |         |                  |  |                                            |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |      | TO                         |                          |      | COURSE AND DISTANCE                                                                          |        |                           | ALTITUDE       |        |      | <b>RNP: DA</b><br><br>CLIMB TO 2000 DIRECT LAWNN AND ON TRACK 344.83 TO BRBRA AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 155.68 INBOUND.<br>ROUTE TYPE: A, H<br>ROUTE TYPE QUALIFIER 1: F<br>ROUTE TYPE QUALIFIER 2: S<br>DISTANCE TO THLD FROM 362 HAT: 0.95 NM.<br>CHART MANDATORY 3000 AT MANTY.<br>#TCH 65.9 (DO NOT CHART)                        |        |     |         |                  |  |                                            |  |  |  |  |  |
| HILEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |      | MANTY (TF) (FB) (RNP 2.00) |                          |      | 155.97 / 20.89                                                                               |        |                           | 3000           |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| MANTY (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |      | ZILBI (TF) (FB) (RNP 1.00) |                          |      | 233.12 / 12.16                                                                               |        |                           | 3000           |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| FLIPR (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |      | ZILBI (TF) (FB) (RNP 1.00) |                          |      | 335.46 / 28.91                                                                               |        |                           | 3000           |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| ZILBI (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      | BASHO (TF) (FB) (RNP 1.00) |                          |      | 272.53 / 5.77                                                                                |        |                           | 3000           |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| BASHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |      | AGLER (TF) (FB) (RNP 1.00) |                          |      | 272.48 / 4.41                                                                                |        |                           | 1600           |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT ZILBI<br>3. FAC: <u>272.43</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____<br>4. MIN. ALT: <b>ZILBI 3000, BASHO 3000, AGLER 1600</b><br>5. DIST TO THLD FROM OM: <u>4.82</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1600</u> GS ALT AT: <b>AGLER 1600</b> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>57.6</u> # <u>34:1</u> IS CLEAR<br>8. MSA FROM: <b>RW26L 2900</b> |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  | MAG VAR: <b>5W</b> EPOCH YEAR: <b>2000</b> |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           | ALTERNATE: N A |        |      | STANDARD                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                  |  |                                            |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | A    |                            |                          | B    |                                                                                              |        | C                         |                |        | D    |                                                                                                                                                                                                                                                                                                                                                                      |        | E   |         |                  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS  | HAT/HAA                    | DH/MDA                   | VIS  | HAT/HAA                                                                                      | DH/MDA | VIS                       | HAT/HAA        | DH/MDA | VIS  | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS | HAT/HAA |                  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| AUTHORIZATION REQUIRED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| RNP 0.20 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 370    | 4500 | 362                        | 370                      | 4500 | 362                                                                                          | 370    | 4500                      | 362            | 370    | 4500 | 362                                                                                                                                                                                                                                                                                                                                                                  |        |     |         |                  |  |                                            |  |  |  |  |  |
| RNP 0.30 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 420    | 6000 | 412                        | 420                      | 6000 | 412                                                                                          | 420    | 6000                      | 412            | 420    | 6000 | 412                                                                                                                                                                                                                                                                                                                                                                  |        |     |         |                  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 6C (43F) OR ABOVE 54C (130F).<br>CHART NOTE: GPS REQUIRED.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: FOR INOPERATIVE MALSF, INCREASE RNP 0.20 CAT D VISIBILITY TO RVR 6000 AND INCREASE RNP 0.30 CAT D VISIBILITY TO 1 3/8 MILE.                                                                                                                                                                           |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                  |  |                                            |  |  |  |  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |      |                            | ELEVATION: 9 TDZE: 8     |      |                                                                                              |        | FACILITY IDENTIFIER: RNAV |                |        |      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                               |        |     |         | SUP:             |  |                                            |  |  |  |  |  |
| MIAMI, FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |                            | AIRPORT NAME: MIAMI INTL |      |                                                                                              |        |                           |                |        |      | RNAV (RNP) Y RWY 26L, AMDT 1<br>21 JULY 2016                                                                                                                                                                                                                                                                                                                         |        |     |         | AMDT: ORIG-B     |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |                            |                          |      |                                                                                              |        |                           |                |        |      |                                                                                                                                                                                                                                                                                                                                                                      |        |     |         | DATED 06/30/2011 |  |                                            |  |  |  |  |  |

QUALITY  
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**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) - STANDARD,**  
**INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

FROM

TO

### COURSE AND DISTANCE

## ALTITUDE

AGLER (FAF)

RW26L (MAP) (TF) (FO)

272.43 / 4.82

RW26L (MAP)

370 MSL (CA)

272.43

370 MSL

LAWNN (DF) (FB)

LAWNN

BRBRA (TF) (FO) (RNP 1.00)

344.83 / 10.84

2000

CITY AND STATE

MIAMI, FL

ELEVATION: 9 TDZE: 8

TDZE: 8

AIRPORT NAME:

MIAMI INTL

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (RNP) Y RWY 26L, AMDT 1

21 JULY 2016

|SUP:

AMDT:            ORIG-B

DATED: 06/30/2011

QUALITY  
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|                                                                                                                                                                                                      |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------|------------------------|-----|------------------------|------------|------------------|-------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> |            |                       |             |                        |     |                        |            |                  |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KMIA<br><br>ROUTES                                                                                                                                                                   |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                           | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO                  | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE            | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| FLIPR                                                                                                                                                                                                | 010        | FLIPR                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| FLIPR                                                                                                                                                                                                | 020        | ZILBI                 | TF          | FB                     | 1.0 |                        |            |                  |             |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| FLIPR                                                                                                                                                                                                | 030        | BASHO                 | TF          | FB                     | 1.0 |                        |            |                  |             |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| HILEY                                                                                                                                                                                                | 010        | HILEY                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
| HILEY                                                                                                                                                                                                | 020        | MANTY                 | TF          | FB                     | 2.0 |                        |            |                  |             |               |                | AT 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| HILEY                                                                                                                                                                                                | 030        | ZILBI                 | TF          | FB                     | 1.0 |                        |            |                  |             |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| HILEY                                                                                                                                                                                                | 040        | BASHO                 | TF          | FB                     | 1.0 |                        |            |                  |             |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
|                                                                                                                                                                                                      | 010        | BASHO                 | IF          | FB                     |     |                        |            |                  |             |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                                                                                                                                                      | 020        | AGLER                 | TF          | FB                     | 1.0 |                        |            |                  |             | RW26L         |                | AA 01600                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                                                                                                                                                      | 030        | RW26L                 | TF          | FO                     | 0.3 |                        |            | 3.00             |             |               |                | AT 00066                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                                      | 040        |                       | CA          | FB                     |     | 272.4                  |            |                  |             |               |                | AA 00370                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                                                                                                                                                      | 050        | LAWNN                 | DF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
|                                                                                                                                                                                                      | 060        | BRBRA                 | TF          | FO                     | 1.0 |                        |            |                  |             |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                                                                                                                                                      | 070        | BRBRA                 | HM          | FO                     |     | 155.7                  |            |                  | R           |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                                                                                                                                                               |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                           |            |                       | LATITUDE    |                        |     | LONGITUDE              |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BRBRA                                                                                                                                                                                                |            |                       | N255802.23  |                        |     | W0802710.87            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HILEY                                                                                                                                                                                                |            |                       | N261515.81  |                        |     | W0800047.10            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| AGLER                                                                                                                                                                                                |            |                       | N254820.37  |                        |     | W0801050.38            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BASHO                                                                                                                                                                                                |            |                       | N254832.13  |                        |     | W0800557.54            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIPR                                                                                                                                                                                                |            |                       | N252334.49  |                        |     | W0794346.44            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| LAWNN                                                                                                                                                                                                |            |                       | N254750.14  |                        |     | W0802302.07            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| MANTY                                                                                                                                                                                                |            |                       | N255655.99  |                        |     | W0794932.31            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ZILBI                                                                                                                                                                                                |            |                       | N254847.26  |                        |     | W0795934.02            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                               |            | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |     | THRESHOLD<br>ELEVATION |            | PROCEDURE<br>TCH |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW26L                                                                                                                                                                                                |            | N254807.27            |             | W0801610.33            |     | 00008                  |            | 57.6             |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
28  
CHECKED

|                                    |                                    |                |                      |                                            |                          |
|------------------------------------|------------------------------------|----------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>MIAMI, FL</b> | ELEVATION: <b>9</b>                | TDZE: <b>8</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                    | AIRPORT NAME:<br><b>MIAMI INTL</b> |                | <b>RNAV</b>          | <b>RNAV (RNP) Y RWY 26L, AMDT 1</b>        | AMDT: <b>ORIG-B</b>      |
|                                    |                                    |                |                      | 21 JULY 2016                               | DATED: <b>06/30/2011</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------------------|---------------------------------------------------------|----------|----------------------------------------------------------------------------------------------|--------|------------------------------|----------|---------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|---------|--|--|--------------------------------------------|--|--|--|--|--|
| <b>US DEPARTMENT OF TRANSPORTATION<br/>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |          |                            |                                                         |          | <b>RNAV (RNP) - STANDARD,<br/>INSTRUMENT APPROACH PROCEDURE,<br/>TITLE 14 CFR PART 97.33</b> |        |                              |          |                                                                                       |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.           |        |                                      |         |  |  |                                            |  |  |  |  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                         |        |                                      |         |  |  |                                            |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |          | TO                         |                                                         |          | COURSE AND DISTANCE                                                                          |        |                              | ALTITUDE |                                                                                       |          | <b>RNP: DA</b><br><br>CLIMB TO 2000 DIRECT TUHWU AND ON TRACK 341.98 TO BRBRA AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 155.68 INBOUND.<br>ROUTE TYPE QUALIFIER 1: F<br>ROUTE TYPE QUALIFIER 2: S<br>ROUTE TYPE: A, H<br>CHART MANDATORY 3000 AT MANTY.<br>CHART MANDATORY 3000 AT ONICO.<br>DISTANCE TO THLD FROM 328 HAT: 0.86 NM<br>#TCH 63.2 (DO NOT CHART) |        |                                      |         |  |  |                                            |  |  |  |  |  |
| HILEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |          | MANTY (TF) (FB) (RNP 2.00) |                                                         |          | 155.97 / 20.89                                                                               |        |                              | 3000     |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| MANTY (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |          | HENDN (TF) (FB) (RNP 1.00) |                                                         |          | 233.87 / 13.69                                                                               |        |                              | 3000     |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| FLIPR (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |          | ONICO (TF) (FB) (RNP 1.00) |                                                         |          | 323.39 / 18.80                                                                               |        |                              | 3000     |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| ONICO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |          | HENDN (TF) (FB) (RNP 1.00) |                                                         |          | 332.31 / 10.00                                                                               |        |                              | 3000     |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| HENDN (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |          | SARCO (TF) (FB) (RNP 1.00) |                                                         |          | 272.51 / 4.84                                                                                |        |                              | 3000     |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT HENDN<br>3. FAC: <u>272.43</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____<br>4. MIN. ALT: <b>HENDN 3000, SARCO 3000, CHHAZ 1700</b><br>5. DIST TO THLD FROM OM: <u>5.14</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>1700</u> GS ALT AT: <b>CHHAZ 1700</b> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> # <u>34:1</u> IS CLEAR<br>8. MSA FROM: <b>RW27 2900</b> |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  | MAG VAR: <b>5W</b> EPOCH YEAR: <b>2000</b> |  |  |  |  |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          | ALTERNATE: N A                                                                        |          | <b>STANDARD</b>                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | <b>A</b> |                            |                                                         | <b>B</b> |                                                                                              |        | <b>C</b>                     |          |                                                                                       | <b>D</b> |                                                                                                                                                                                                                                                                                                                                                                                |        | <b>E</b>                             |         |  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DH/MDA | VIS      | HAT/HAA                    | DH/MDA                                                  | VIS      | HAT/HAA                                                                                      | DH/MDA | VIS                          | HAT/HAA  | DH/MDA                                                                                | VIS      | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                        | DH/MDA | VIS                                  | HAT/HAA |  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| <b>AUTHORIZATION REQUIRED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| RNP 0.11 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 336    | 3000     | 328                        | 336                                                     | 3000     | 328                                                                                          | 336    | 3000                         | 328      | 336                                                                                   | 3000     | 328                                                                                                                                                                                                                                                                                                                                                                            | 336    | 3000                                 | 328     |  |  |                                            |  |  |  |  |  |
| RNP 0.30 DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 408    | 4500     | 400                        | 408                                                     | 4500     | 400                                                                                          | 408    | 4500                         | 400      | 408                                                                                   | 4500     | 400                                                                                                                                                                                                                                                                                                                                                                            | 408    | 4500                                 | 400     |  |  |                                            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 6C (43F) OR ABOVE 54C (130F).<br>CHART NOTE: GPS REQUIRED.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 5000 AND RNP 0.30<br>ALL CATS VISIBILITY TO 1 1/4 MILE.                                                                                                                                                                          |        |          |                            |                                                         |          |                                                                                              |        |                              |          |                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                |        |                                      |         |  |  |                                            |  |  |  |  |  |
| CITY AND STATE<br><br>MIAMI, FL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |          |                            | ELEVATION: 9 TDZE: 8<br>AIRPORT NAME:<br><br>MIAMI INTL |          |                                                                                              |        | FACILITY IDENTIFIER:<br>RNAV |          | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (RNP) Y RWY 27, AMDT 2<br>21 JULY 2016 |          |                                                                                                                                                                                                                                                                                                                                                                                |        | SUP:<br>AMDT: 1A<br>DATED 06/30/2011 |         |  |  |                                            |  |  |  |  |  |

QUALITY  
14  
CHECKED

**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) - STANDARD,**  
**INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| FROM        | TO                         | COURSE AND DISTANCE | ALTITUDE |
|-------------|----------------------------|---------------------|----------|
| SARCO       | CHHAZ (TF) (FB) (RNP 1.00) | 272.46 / 4.12       | 1700     |
| CHHAZ (FAF) | RW27 (MAP) (TF) (FO)       | 272.43 / 5.14       |          |
| RW27 (MAP)  | 336 MSL (CA)               | 272.43              |          |
| 336 MSL     | TUHWU (DF) (FB)            |                     |          |
| TUHWU       | BRBRA (TF) (FO) (RNP1.00)  | 341.98 / 11.92      | 2000     |

QUALITY  
14  
CHECKED

|                                 |               |         |                                  |                                         |                   |
|---------------------------------|---------------|---------|----------------------------------|-----------------------------------------|-------------------|
| CITY AND STATE<br><br>MIAMI, FL | ELEVATION: 9  | TDZE: 8 | FACILITY IDENTIFIER:<br><br>RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP:              |
|                                 | AIRPORT NAME: |         |                                  | RNAV (RNP) Y RWY 27, AMDT 2             | AMDT: 1A          |
|                                 | MIAMI INTL    |         |                                  | 21 JULY 2016                            | DATED: 06/30/2011 |

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KMIA

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| FLIPR      | 010        | FLIPR       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| FLIPR      | 020        | ONICO       | TF          | FB    | 1.0 |            |            |       |             |               |                | AT 03000                           |                                       | E                          |
| FLIPR      | 030        | HENDN       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03000                           |                                       | E B                        |
| FLIPR      | 040        | SARCO       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03000                           |                                       | EE                         |
| HILEY      | 010        | HILEY       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
| HILEY      | 020        | MANTY       | TF          | FB    | 2.0 |            |            |       |             |               |                | AT 03000                           |                                       | E A                        |
| HILEY      | 030        | HENDN       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03000                           |                                       | E B                        |
| HILEY      | 040        | SARCO       | TF          | FB    | 1.0 |            |            |       |             |               |                | AA 03000                           |                                       | EE                         |
|            | 010        | SARCO       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | CHHAZ       | TF          | FB    | 1.0 |            |            |       |             | RW27          |                | AA 01700                           |                                       | E F                        |
|            | 030        | RW27        | TF          | FO    | 0.3 |            |            | 3.00  |             |               |                | AT 00063                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 272.4      |            |       |             |               |                | AA 00336                           |                                       | M                          |
|            | 050        | TUHWU       | DF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
|            | 060        | BRBRA       | TF          | FO    | 1.0 |            |            |       |             |               |                | AA 02000                           |                                       | EY                         |
|            | 070        | BRBRA       | HM          | FO    |     | 155.7      |            |       | R           |               |                | AA 02000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| BRBRA      | N255802.23 | W0802710.87 |
| HILEY      | N261515.81 | W0800047.10 |
| CHHAZ      | N254729.69 | W0801052.69 |
| FLIPR      | N252334.49 | W0794346.44 |
| HENDN      | N254753.48 | W0800058.11 |
| MANTY      | N255655.99 | W0794932.31 |
| ONICO      | N253927.09 | W0795459.09 |
| SARCO      | N254740.72 | W0800619.28 |
| TUHWU      | N254702.13 | W0802200.53 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW27   | N254715.72            | W0801634.02            | 00008                  | 55.0             |

QUALITY  
28  
CHECKED

|                                    |                                    |                |                      |                                                                                  |                 |
|------------------------------------|------------------------------------|----------------|----------------------|----------------------------------------------------------------------------------|-----------------|
| CITY AND STATE<br><b>MIAMI, FL</b> | ELEVATION: <b>9</b>                | TDZE: <b>8</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (RNP) Y RWY 27, AMDT 2</b> | SUP:            |
|                                    | AIRPORT NAME:<br><b>MIAMI INTL</b> |                | <b>RNAV</b>          | 21 JULY 2016                                                                     | AMDT: <b>1A</b> |
|                                    | DATED: <b>06/30/2011</b>           |                |                      |                                                                                  |                 |

|                                                                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------|---------------------------|-------------------------------|-----|------------------------------------------------------------------------------|------|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|-----|-----|---------|--|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>LOC STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25                                                                                                                                                              |      |                                                                 |                           |                               |     |                                                                              |      |       |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                     |                        |     |     |         |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                 |      |                                                                 | TO                        |                               |     | COURSE AND DISTANCE                                                          |      |       | ALTITUDE |                                                                                                                                                                                                                                                                                                                                                                      | MAP: 5.10 MILES AFTER CROAM INT/I-MAC 5.80 DME OR AT UZNOM/I-MAC 0.70 DME FIX       |                        |     |     |         |  |  |  |  |
| FOBES/MCN 12.00 DME CW (IAF)                                                                                                                                                                                                                                                                                                         |      |                                                                 | MOBSE INT/I-MAC 12.00 DME |                               |     | 12.00 DME ARC (MCN LR-312)                                                   |      |       | 2100     |                                                                                                                                                                                                                                                                                                                                                                      | CLIMBING LEFT TURN TO 2200 ON MCN VORTAC R-028 TO MURVE INT/MCN 17.00 DME AND HOLD. |                        |     |     |         |  |  |  |  |
| MOBSE INT/I-MAC 12.00 DME (IF)                                                                                                                                                                                                                                                                                                       |      |                                                                 | CROAM INT/I-MAC 5.80 DME  |                               |     | 104.50 / 6.20 (I-MAC)                                                        |      |       | 2100     |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          | ADDITIONAL FLIGHT DATA:<br>HOLD NE, RT, 208.00 INBOUND.<br>CHART FAS OBST: 710 TOWER 325010N/0833758W<br>CHART 1085 TOWER 325043N/0834028W.<br>CHART: LOC/AZIMUTH OFFSET 2.48 DEGREES.<br>CHART MIDDLE GEORGIA RGNL ASOS.<br>CHART MCN R-300 AT FOBES.<br>CROAM TO RW10: 3.04/40.<br>CHART CIRCLING ICON.<br>FAC CROSSES RWY C/L EXTENDED 3173 FT FROM THLD.         |                                                                                     |                        |     |     |         |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                 |      |                                                                 |                           |                               |     |                                                                              |      |       |          | MAG VAR: 6W EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                         |                                                                                     |                        |     |     |         |  |  |  |  |
| 2. PROFILE STARTS AT MOBSE                                                                                                                                                                                                                                                                                                           |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| 3. FAC 104.50 FAF CROAM INT/I-MAC 5.80 DME DIST FAF TO MAP 5.10 THLD 5.10                                                                                                                                                                                                                                                            |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| 4. MIN. ALT MOBSE 2100, CROAM 2100                                                                                                                                                                                                                                                                                                   |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| 8. MSA FROM: MCN VORTAC 2600                                                                                                                                                                                                                                                                                                         |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                             |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |                                                                                     | X                      |     |     |         |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                      |      | A                                                               |                           |                               | B   |                                                                              |      | C     |          |                                                                                                                                                                                                                                                                                                                                                                      | D                                                                                   |                        |     | E   |         |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                      | MDA  | VIS                                                             | HAT/HAA                   | MDA                           | VIS | HAT/HAA                                                                      | MDA  | VIS   | HAT/HAA  | MDA                                                                                                                                                                                                                                                                                                                                                                  | VIS                                                                                 | HAT/HAA                | MDA | VIS | HAT/HAA |  |  |  |  |
| S-10                                                                                                                                                                                                                                                                                                                                 | 1060 | 1                                                               | 630                       | 1060                          | 1   | 630                                                                          | 1060 | 1 3/4 | 630      | 1060                                                                                                                                                                                                                                                                                                                                                                 | 1 3/4                                                                               | 630                    |     |     |         |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                             | 1200 | 1                                                               | 763                       | 1200                          | 1   | 763                                                                          | 1320 | 2 3/4 | 883      | 1480                                                                                                                                                                                                                                                                                                                                                                 | 3                                                                                   | 1043                   |     |     |         |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                      |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| NOTES:<br>CHART NOTE: USE MIDDLE GEORIGIA RGNL ALTIMETER SETTING; WHEN NOT RECEIVED, USE ROBINS AFB ALTIMETER SETTING AND INCREASE ALL MDA 20 FEET.<br>CHART NOTE: NIGHT LANDING: RWY 15-33 NA.<br>CHART PLANVIEW NOTE: DME REQUIRED.<br>CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). |      |                                                                 |                           |                               |     |                                                                              |      |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                        |     |     |         |  |  |  |  |
| CITY AND STATE<br>MACON, GA                                                                                                                                                                                                                                                                                                          |      | ELEVATION: 437 TDZE: 430<br>AIRPORT NAME:<br><br>MACON DOWNTOWN |                           | FACILITY IDENTIFIER:<br>I-MAC |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>LOC RWY 10, AMDT 8<br>21 JULY 2016 |      |       |          | SUP<br>AMDT<br>DATE                                                                                                                                                                                                                                                                                                                                                  |                                                                                     | 18<br>7A<br>12/11/2014 |     |     |         |  |  |  |  |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KMAC

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| FOBES      | 010        | FOBES       | IF          | FB    |     |            | MCN        |       |             |               |                |                                    |                                       | E A                        |
| FOBES      | 020        | MOBSE       | AF          | FB    |     | 300.3      | MCN        |       | R           |               |                | AA 02100                           |                                       | EE B                       |
|            | 010        | MOBSE       | IF          | FB    |     |            | IMAC       |       |             |               |                | AA 02100                           |                                       | E I                        |
|            | 020        | CROAM       | CF          | FB    |     | 105.0      | IMAC       |       |             | MCN           |                | AA 02100                           |                                       | E F                        |
|            | 030        | UZNOM       | CF          | FO    |     | 105.0      | IMAC       | 3.04  |             |               |                | AT 00453                           |                                       | EY M                       |
|            | 040        |             | CA          | FB    |     | 104.5      |            |       |             |               |                | AA 00837                           |                                       | M                          |
|            | 050        | MURVE       | CF          | FO    |     | 028.0      | MCN        |       |             |               |                | AA 02200                           |                                       | EY                         |
|            | 060        | MURVE       | HM          | FO    |     | 208.0      |            |       | R           |               |                | AA 02200                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| MCN        | N324128.27 | W0833849.86 |
| IMAC (DME) | N324913.33 | W0833323.84 |
| FOBES      | N324742.18 | W0835059.99 |
| MURVE      | N325621.79 | W0832902.31 |
| CROAM      | N325006.24 | W0834011.92 |
| MOBSE      | N325100.73 | W0834728.72 |
| UZNOM      | N324921.10 | W0833412.71 |
| IMAC (LOC) | N324914.89 | W0833323.44 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW10   | N324922.44            | W0833412.47            | 00413                  | 40               |

QUALITY  
15  
CHECKED

CITY AND STATE

MACON, GA

ELEVATION: 437

TDZE: 430

AIRPORT NAME:

MACON DOWNTOWN

FACILITY  
IDENTIFIER:

I-MAC

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

LOC RWY 10, AMDT 8

21 JULY 2016

SUP:

AMDT:

7A

DATED:

12/11/2014

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|----------------------------|-------|------------------------------------------------------------------------|--------|----------------------|---------|--------|-------|----------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------------------|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |       |         |                            |       | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |                  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |       |         | TO                         |       |                                                                        |        | COURSE AND DISTANCE  |         |        |       | ALTITUDE                               |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW10<br><br>CLIMB TO 3000 DIRECT JOBRA AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD E, RT, 282.14 INBOUND.<br>CHART FAS OBST: 589 TREE 324953N/0833414W<br>CHART 1085 TOWER 325043N/0834028W.<br>CHART 642 TOWER 324916N/0833733W.<br>DISTANCE TO THLD FROM 282 HAT: 0.89 NM.<br>WAAS CHANNEL # 56421<br>REFERENCE PATH ID: W10A<br>CHART CIRCLING ICON.<br>LTP HAE: 98.7 M<br>CHART MIDDLE GEORGA RGNL ASOS. |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| HAVIM (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         | KODRE (FB)                 |       |                                                                        |        | 101.90 / 6.33        |         |        |       | 2100                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| KODRE (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |       |         | DOBCE/2.60 NM TO RW10 (FB) |       |                                                                        |        | 101.96 / 2.57        |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| DOBCE/2.60 NM TO RW10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |       |         | RW10 (MAP) (FO)            |       |                                                                        |        | 101.96 / 2.60        |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| RW10 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |       |         | 712 MSL                    |       |                                                                        |        | 101.96               |         |        |       | 3000                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| 712 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |       |         | JOBRA (FO)                 |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD W HAVIM, RT, 101.90 INBOUND, 3000 FT. IN LIEU OF PT (IAF)<br>3. FAC: <u>101.96</u> FAF: <u>KODRE</u> DIST FAF TO MAP: <u>5.17</u> THLD: <u>5.17</u><br>4. MIN. ALT: <u>HAVIM 3000, KODRE 2100, DOBCE/2.60 NM TO RW10 1280*</u><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>KODRE 2100</u> OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS CLEAR<br>8. MSA FROM: _____ |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | MAG VAR: 6W                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  | EPOCH YEAR: 2020 |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         |                            |       |                                                                        |        | ALTERNATE: N A       |         | X      |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | A     |         |                            | B     |                                                                        |        | C                    |         |        | D     |                                        |        | E                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS   | HAT/HAA | DH/MDA                     | VIS   | HAT/HAA                                                                | DH/MDA | VIS                  | HAT/HAA | DH/MDA | VIS   | HAT/HAA                                | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 712    | 1     | 282     | 712                        | 1     | 282                                                                    | 712    | 1                    | 282     | 712    | 1     | 282                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 819    | 1 3/8 | 389     | 819                        | 1 3/8 | 389                                                                    | 819    | 1 3/8                | 389     | 819    | 1 3/8 | 389                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 880    | 1     | 450     | 880                        | 1     | 450                                                                    | 880    | 1 3/8                | 450     | 880    | 1 3/8 | 450                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1200   | 1     | 763     | 1200                       | 1     | 763                                                                    | 1320   | 2 3/4                | 883     | 1480   | 3     | 1043                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| NOTES: CHART NOTE: USE MIDDLE GEORGIA ALTIMETER SETTING, WHEN NOT RECEIVED, USE ROBBINS AFB ALTIMETER SETTING AND INCREASE LPV DA TO 726 FEET, INCREASE LNAV/VNAV DA TO 833 FEET AND INCREASE ALL MDA 20 FEET.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: BARO-VNAV NA.<br>CHART NOTE: NIGHT LANDING: RWY 15-33 NA.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>*LNAV ONLY                                                                                                                                                                      |        |       |         |                            |       |                                                                        |        |                      |         |        |       |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                  |  |  |  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |         | ELEVATION: 437 TDZE: 430   |       |                                                                        |        | FACILITY IDENTIFIER: |         |        |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | SUP:                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                  |  |  |  |  |
| MACON, GA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |       |         | AIRPORT NAME:              |       |                                                                        |        | RNAV                 |         |        |       | RNAV (GPS) RWY 10, AMDT 2              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | AMDT: 1A                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       |         | MACON DOWNTOWN             |       |                                                                        |        |                      |         |        |       | 21 JULY 2016                           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | DATED 12/11/2014                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |                  |  |  |  |  |





US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 012/30 CW 192/30 (NOPT) | HAVIM (IF/IAF) (FB) | 3000 |
| 2. | 192/30 CW 012/30        | HAVIM (IF/IAF) (FO) | 3000 |

CITY AND STATE

MACON, GA

ELEVATION: 437

TDZE: 430

AIRPORT NAME:

MACON DOWNTOWN

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 10, AMDT 2

21 JULY 2016

SUP:

AMDT: 1A

DATED: 12/11/2014

QUALITY  
18  
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMAC          |
| RUNWAY                                   | RW10          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W10A          |
| LTP/FTP LATITUDE                         | 324922.4400N  |
| LTP/FTP LONGITUDE                        | 0833412.4695W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00987        |
| FPAP LATITUDE                            | 324913.0650N  |
| FPAP LONGITUDE                           | 0833227.3235W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1400          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>474A866E  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01259 |
| FPAP ORTHOMETRIC HEIGHT | +01259 |

CITY AND STATE

MACON, GA

ELEVATION: 437

TDZE: 430

AIRPORT NAME:

MACON DOWNTOWN

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 10, AMDT 2

21 JULY 2016

SUP:

AMDT:

DATED: 12/11/2014

 QUALITY  
18  
CHECKED

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |                       |             |             |       |                        |            |            |       |                        |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|-----------------------|-------------|-------------|-------|------------------------|------------|------------|-------|------------------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |                       |             |             |       |                        |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |                       |             |             |       |                        |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KMAC                                                |                       |             |             |       |                        |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |                       |             |             |       |                        |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ            | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP                    | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR            | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| HAVIM                                                               | 010                   | HAVIM       | HF          | FO    |                        | 101.9      |            |       | R                      |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |
|                                                                     | 010                   | HAVIM       | IF          | FB    |                        |            |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                     | 020                   | KODRE       | TF          | FB    | 1.0                    | 101.9      |            |       |                        |               |                | AA 02100                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 021                   | DOBCE       | TF          | FB    | 0.3                    | 102.0      |            | 3.00  |                        |               |                | AA 01280 GS 01281                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                     | 030                   | RW10        | TF          | FO    | 0.3                    | 102.0      |            | 3.00  |                        |               |                | AT 00453                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040                   |             | CA          | FB    |                        | 102.0      |            |       |                        |               |                | AA 00712                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050                   | JOBRA       | DF          | FO    |                        |            |            |       |                        |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 060                   | JOBRA       | HM          | FO    |                        | 282.1      |            |       | R                      |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |                       |             |             |       |                        |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          | LATITUDE              |             |             |       | LONGITUDE              |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| DOBCE                                                               | N324938.80            |             |             |       | W0833716.58            |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HAVIM                                                               | N325034.21            |             |             |       | W0834746.95            |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JOBRA                                                               | N324803.76            |             |             |       | W0831937.57            |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| KODRE                                                               | N324954.90            |             |             |       | W0834018.72            |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |                       |             |             |       |                        |            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              | THRESHOLD<br>LATITUDE |             |             |       | THRESHOLD<br>LONGITUDE |            |            |       | THRESHOLD<br>ELEVATION |               |                |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE<br>TCH                      |                            |
| RW10                                                                | N324922.44            |             |             |       | W0833412.47            |            |            |       | 00413                  |               |                |                                                                                                                                                                                                                                                                                                                                                                      | 40                                    |                            |

|                                    |                                        |                  |                      |                                            |                          |
|------------------------------------|----------------------------------------|------------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>MACON, GA</b> | ELEVATION: <b>437</b>                  | TDZE: <b>430</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                    | AIRPORT NAME:<br><b>MACON DOWNTOWN</b> |                  | <b>RNAV</b>          | <b>RNAV (GPS) RWY 10, AMDT 2</b>           | AMDT: <b>1A</b>          |
|                                    |                                        |                  |                      | 21 JULY 2016                               | DATED: <b>12/11/2014</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------------|---------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|---------|------------------|------------------|---------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                            |                          |                     |       | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        | MISSED APPROACH  |         |                  |                  |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | TO                         |                          | COURSE AND DISTANCE |       |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE |       | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW28<br><br>CLIMB TO 3000 DIRECT HAVIM AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD W, RT, 101.90 INBOUND.<br>CHART FAS OBST: 580 STACK 324842N/0833330W<br>CHART MIDDLE GEORGA RGNL ASOS.<br>DISTANCE TO THLD FROM 282 HAT: 0.76 NM.<br>WAAS CHANNEL # 86421<br>REFERENCE PATH ID: W28A<br>CHART CIRCLING ICON.<br>LTP HAE: 99.4 M |        |                  |         |                  |                  |         |  |
| JOBRA (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | HONKA (FB)                 |                          | 282.14 / 6.50       |       |                                                                                                                                                                                                                                                                                                                                                                      | 2100     |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| HONKA (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | WURAS/2.60 NM TO RW28 (FB) |                          | 282.08 / 2.57       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| WURAS/2.60 NM TO RW28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | RW28 (MAP) (FO)            |                          | 282.08 / 2.60       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| RW28 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | 712 MSL                    |                          | 282.08              |       |                                                                                                                                                                                                                                                                                                                                                                      | 3000     |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| 712 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | HAVIM (FO)                 |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD E JOBRA, RT, 282.14 INBOUND, 3000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 282.08 FAF: HONKA DIST FAF TO MAP: 5.17 THLD: 5.17<br>4. MIN. ALT: JOBRA 3000, HONKA 2100, WURAS/2.60 NM TO RW28 1280*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 2100 GS ALT AT: HONKA 2100 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR<br>8. MSA FROM: _____ |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        | MAG VAR: 6W      |         |                  | EPOCH YEAR: 2020 |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        | ALTERNATE: N A X |         |                  |                  |         |  |
| CATEGORY >>>>>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A      |                            |                          | B                   |       |                                                                                                                                                                                                                                                                                                                                                                      | C        |       |                                                                                                                                                                                                                                                                                                                                                                           | D      |                  |         | E                |                  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DH/MDA | VIS                        | HAT/HAA                  | DH/MDA              | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA   | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                   | DH/MDA | VIS              | HAT/HAA | DH/MDA           | VIS              | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 712    | 1                          | 282                      | 712                 | 1     | 282                                                                                                                                                                                                                                                                                                                                                                  | 712      | 1     | 282                                                                                                                                                                                                                                                                                                                                                                       | 712    | 1                | 282     |                  |                  |         |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1049   | 2 1/2                      | 619                      | 1049                | 2 1/2 | 619                                                                                                                                                                                                                                                                                                                                                                  | 1049     | 2 1/2 | 619                                                                                                                                                                                                                                                                                                                                                                       | 1049   | 2 1/2            | 619     |                  |                  |         |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 920    | 1                          | 490                      | 920                 | 1     | 490                                                                                                                                                                                                                                                                                                                                                                  | 920      | 1 3/8 | 490                                                                                                                                                                                                                                                                                                                                                                       | 920    | 1 3/8            | 490     |                  |                  |         |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1200   | 1                          | 763                      | 1200                | 1     | 763                                                                                                                                                                                                                                                                                                                                                                  | 1320     | 2 3/4 | 883                                                                                                                                                                                                                                                                                                                                                                       | 1480   | 3                | 1043    |                  |                  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| NOTES: CHART NOTE: USE MIDDLE GEORGIA ALTIMETER SETTING, WHEN NOT RECEIVED, USE ROBBINS AFB ALTIMETER SETTING AND INCREASE LPV DA TO 726 FEET, INCREASE LNAV/VNAV DA TO 1063 FEET AND INCREASE ALL MDA 20 FEET.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: NIGHT LANDING: RWY 15-33 NA.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>*LNAV ONLY                                 |        |                            |                          |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         |                  |                  |         |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            | ELEVATION: 437 TDZE: 430 |                     |       | FACILITY IDENTIFIER:                                                                                                                                                                                                                                                                                                                                                 |          |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                                    |        |                  |         | SUP:             |                  |         |  |
| MACON, GA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                            | AIRPORT NAME:            |                     |       | RNAV                                                                                                                                                                                                                                                                                                                                                                 |          |       | RNAV (GPS) RWY 28, AMDT 2<br>21 JULY 2016                                                                                                                                                                                                                                                                                                                                 |        |                  |         | AMDT: 1A         |                  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            | MACON DOWNTOWN           |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |          |       |                                                                                                                                                                                                                                                                                                                                                                           |        |                  |         | DATED 12/11/2014 |                  |         |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 192/30 CW 012/30 (NOPT) | JOBRA (IF/IAF) (FB) | 3000 |
| 2. | 012/30 CW 192/30        | JOBRA (IF/IAF) (FO) | 3000 |

CITY AND STATE  
MACON, GA

ELEVATION: 437 TDZE: 430  
AIRPORT NAME:  
MACON DOWNTOWN

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 28, AMDT 2  
21 JULY 2016

SUP:  
AMDT: 1A  
DATED: 12/11/2014

QUALITY  
18  
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMAC          |
| RUNWAY                                   | RW28          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W28A          |
| LTP/FTP LATITUDE                         | 324918.0960N  |
| LTP/FTP LONGITUDE                        | 0833323.7005W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00994        |
| FPAP LATITUDE                            | 324927.4470N  |
| FPAP LONGITUDE                           | 0833508.8520W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1400          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>A00A23B7  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01265 |
| FPAP ORTHOMETRIC HEIGHT | +01265 |

CITY AND STATE

MACON, GA

ELEVATION: 437

TDZE: 430

AIRPORT NAME:

MACON DOWNTOWN

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 28, AMDT 2

21 JULY 2016

SUP:

AMDT:

DATED:

 QUALITY  
18  
CHECKED

1A

12/11/2014

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KMAC

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| JOBRA      | 010        | JOBRA       | HF          | FO    |     | 282.1      |            |       | R           |               |                | AA 03000                           |                                       | EE A                       |
|            | 010        | JOBRA       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | HONKA       | TF          | FB    | 1.0 | 282.1      |            |       |             |               |                | AA 02100                           |                                       | E F                        |
|            | 021        | WURAS       | TF          | FB    | 0.3 | 282.1      |            | 3.00  |             |               |                | AA 01280 GS 01283                  |                                       | E S                        |
|            | 030        | RW28        | TF          | FO    | 0.3 | 282.1      |            | 3.00  |             |               |                | AT 00455                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 282.1      |            |       |             |               |                | AA 00712                           |                                       | M                          |
|            | 050        | HAVIM       | DF          | FO    |     |            |            |       |             |               |                | AA 03000                           |                                       | EY                         |
|            | 060        | HAVIM       | HM          | FO    |     | 101.9      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| HAVIM      | N325034.21 | W0834746.95 |
| HONKA      | N324845.38 | W0832718.00 |
| JOBRA      | N324803.76 | W0831937.57 |
| WURAS      | N324901.67 | W0833019.61 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW28   | N324918.10            | W0833323.70            | 00415                  | 40               |

|                                    |                                        |                                            |                                                                                                    |                          |
|------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>MACON, GA</b> | ELEVATION: <b>437</b> <b>TDZE: 430</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 28, AMDT 2</b><br><br>21 JULY 2016 | SUP:                     |
|                                    | AIRPORT NAME:<br><b>MACON DOWNTOWN</b> |                                            |                                                                                                    | AMDT: <b>1A</b>          |
|                                    |                                        |                                            |                                                                                                    | DATED: <b>12/11/2014</b> |

QUALITY  
18  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport        | Effective Date | Amdt. No. |
|-------------|----------------|----------------|-----------|
| MACON, GA   | MACON DOWNTOWN | 21 JULY 2016   | 7         |

**TAKEOFF MINIMUMS:**

**RWY 10, 28:** STANDARD.

**RWY 15:** 400-1¼ OR STANDARD WITH A MINIMUM CLIMB OF 601 FT PER NM TO 1000.

**RWY 33:** 200-¾ OR STANDARD WITH MINIMUM CLIMB OF 321 FT PER NM TO 700.

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 10:** CLIMB HEADING 102.02 TO 1000 BEFORE PROCEEDING ON COURSE.

**RWY 15:** CLIMB HEADING 152.83 TO 1300 BEFORE TURNING SOUTH.

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 10:** TREES BEGINNING 89 FT FROM DER, 387 FT RIGHT OF CENTERLINE, UP TO 460 FT MSL. TREE 214 FT FROM DER, 393 FT RIGHT OF CENTERLINE, 466 FT MSL. TREES BEGINNING 262 FT FROM DER, 346 FT RIGHT OF CENTERLINE, UP TO 472 FT MSL. TREES BEGINNING 358 FT FROM DER, 28 FT RIGHT OF CENTERLINE, UP TO 486 FT MSL. TREE 3509 FT FROM DER, 398 FT RIGHT OF CENTERLINE, 504 FT MSL. TREE 4002 FT FROM DER, 529 FT RIGHT OF CENTERLINE, 514 FT MSL. TREE 4003 FT FROM DER, 255 FT RIGHT OF CENTERLINE, 519 FT MSL. TREE 4119 FT FROM DER, 568 FT LEFT OF CENTERLINE, 521 FT MSL. TREE 4260 FT FROM DER, 298 FT LEFT OF CENTERLINE, 527 FT MSL. TREE 4454 FT FROM DER, 424 FT LEFT OF CENTERLINE, 533 FT MSL. TREE 4484 FT FROM DER, 125 FT LEFT OF CENTERLINE, 535 FT MSL. TREES BEGINNING 4888 FT FROM DER, 205 FT LEFT OF CENTERLINE, UP TO 549 FT MSL. TREE 5047 FT FROM DER, 4 FT LEFT OF CENTERLINE, 557 FT MSL.

**NOTE: RWY 15:** TOWER 1.00 NM FROM DER, 1558 FT LEFT OF CENTERLINE, 425 FT AGL/806 FT MSL.

**NOTE: RWY 28:** TREES BEGINNING 133 FT FROM DER, 279 FT LEFT OF CENTERLINE, UP TO 443 FT MSL. TREES BEGINNING 402 FT FROM DER, 35 FT LEFT OF CENTERLINE, UP TO 445 FT MSL. TREES BEGINNING 864 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 453 FT MSL.

**NOTE: RWY 33:** TOWER 1448 FT FROM DER, 444 FT LEFT OF CENTERLINE, 59 FT AGL/511 FT MSL. TREES BEGINNING 1642 FT FROM DER, 559 FT LEFT OF CENTERLINE, UP TO 520 FT MSL. TREE 3787 FT FROM DER, 799 FT LEFT OF CENTERLINE, 100 FT AGL/589 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 15:** 806 FT MSL TOWER 324822.07N-0833231.04W.

**RWY 33:** 589 FT MSL TREE 324952.78N-0833414.27W.

**OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:**

**RWY 10:** 923 FT MSL TOWER 325017.00N-0833107.00W.

**RWY 15:** 1212 FT MSL TOWER 324512.00N-0833332.00W.

QUALITY  
18  
CHECKED



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport        | Effective Date | Amdt. No. |
|-------------|----------------|----------------|-----------|
| MACON, GA   | MACON DOWNTOWN | 21 JULY 2016   | 7         |

**REMARKS:**

AFS-460 CLIMB GRADIENT APPROVAL LETTER DATED 12/18/2012 FOR RWY 15 REMAINS IN EFFECT AND CONTAINED IN THE "S" AND "DATA" ELECTRONIC FOLDER FOR THIS PROCEDURE.

**FLIGHT INSPECTED BY:**

**REQUIRED EFFECTIVE DATE:**

MARC J HINCK      *Digitally signed by*  
*DONALD H LANIER*      FICO      05/12/2016  
May 20, 2016

ROUTINE

**DEVELOPED BY:**

ROBERT W. COOK      *Digitally signed by*  
*DONALD H LANIER*      AJV-5411      02/16/16  
May 20, 2016

**APPROVED BY:**

MARLON J. ROBINSON      *Digitally signed by*  
*DONALD H LANIER*      AJV-5410  
May 20, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZTL, A-80, AMGR.

**CHANGES:**

1. RWY 33 MINIMUM CLIMB FT PER NM CHANGED FROM: 312, TO: 321.
2. TEXTUAL DEPARTURE PROCEDURES RWY 10 HEADING CHANGED FROM 099.01, TO: 102.02; RWY 15 FROM: 149.83, TO: 152.83.
3. ALL TAKEOFF OBSTACLE NOTES.
4. RWY 33 589 FT MSL TREE CONTROLLING OBSTACLE COORDINATES CHANGED FROM: 324955.01N-0833412.96W, TO: 324952.78N-0833414.27W.
5. OBSTACLE MANDATING ODP ROUTE FOR RWY 10 MSL VALUE CHANGED FROM: 921, TO: 932

**REASONS:**

- 1, 2, 3, 4, 5. NEW KMAC AIRPORT AND OBSTACLE SURVEY DATA. RUNWAY 10 DISPLACED 255.14 FT, RUNWAY 28 DISPLACED 254 FT. KMAC MAGNETIC DECLINATION CHANGED FROM: W3 1990, TO: W6 2020.

05/25/2016 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/20/16.

1. REMOVED THE WORD "ROUTINE" FROM THE EFFECTIVE DATE.

06/15/2016 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/20/16.

1. REMOVED THE WORD "ROUTINE" FROM THE EFFECTIVE DATE ON PAGE 2 OF 2.

QUALITY  
18  
CHECKED

|                                                                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|---------|------------------------------------------------------------|-----|---------------------|---------|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|---------|-----|-----|----------------------|--|----------------------|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>NDB STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27                                                           |  |     |         |                                                            |     |                     |         |                             |       | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                      |         |     |     |                      |  |                      |  |
| TERMINAL ROUTES                                                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| FROM                                                                                                                                                                                                                              |  |     | TO      |                                                            |     | COURSE AND DISTANCE |         |                             |       | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |     | MAP: 7.36 MILES AFTER GTP NDB                        |         |     |     |                      |  |                      |  |
| HARKE INT                                                                                                                                                                                                                         |  |     | GTP NDB |                                                            |     | 126.85 / 12.37      |         |                             |       | 2400                                                                                                                                                                                                                                                                                                                                                                 |     | CLIMBING RIGHT TURN TO 2400 DIRECT GTP NDB AND HOLD. |         |     |     |                      |  |                      |  |
|                                                                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       | ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 008.86 INBOUND.<br>FAS OBST: 499 AAO 310055N/0835041W<br>FAC ALIGNED TO RWY 4 THLD.                                                                                                                                                                                                                                           |     |                                                      |         |     |     |                      |  |                      |  |
| 1. PT L SIDE OF COURSE 188.86 OUTBOUND 2400 FT WITHIN 10 MILES OF GTP NDB (IAF)                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| 2.                                                                                                                                                                                                                                |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| 3. FAC 008.86 DIST FAF TO MAP 7.36 THLD                                                                                                                                                                                           |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| 4. MIN. ALT GTP NDB 2000                                                                                                                                                                                                          |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| 8. MSA FROM: GTP NDB 180-270 3300, 270-180 2600                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       | MAG VAR: 2W EPOCH YEAR: 1985                                                                                                                                                                                                                                                                                                                                         |     |                                                      |         |     |     |                      |  |                      |  |
| MINIMUMS                                                                                                                                                                                                                          |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |     | STANDARD @                                           |         |     |     |                      |  |                      |  |
| CATEGORY =====>                                                                                                                                                                                                                   |  | A   |         |                                                            | B   |                     |         | C                           |       |                                                                                                                                                                                                                                                                                                                                                                      | D   |                                                      |         | E   |     |                      |  |                      |  |
|                                                                                                                                                                                                                                   |  | MDA | VIS     | HAT/HAA                                                    | MDA | VIS                 | HAT/HAA | MDA                         | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | MDA | VIS                                                  | HAT/HAA | MDA | VIS | HAT/HAA              |  |                      |  |
| CIRCLING                                                                                                                                                                                                                          |  | 880 | 1       | 586                                                        | 880 | 1                   | 586     | 880                         | 1 1/2 | 586                                                                                                                                                                                                                                                                                                                                                                  | 880 | 2                                                    | 586     |     |     |                      |  |                      |  |
|                                                                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
|                                                                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
|                                                                                                                                                                                                                                   |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| NOTES:                                                                                                                                                                                                                            |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE VALDOSTA ALTIMETER SETTING AND INCREASE @ NA WHEN LOCAL WEATHER NOT AVAILABLE.<br>ALL MDA 100 FEET, INCREASE CAT C VISIBILITY 1/2 MILE, AND CAT D VISIBILITY 1/4 MILE. |  |     |         |                                                            |     |                     |         |                             |       |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                      |         |     |     |                      |  |                      |  |
| CITY AND STATE<br>MOULTRIE, GA                                                                                                                                                                                                    |  |     |         | ELEVATION: 294 TDZE:<br>AIRPORT NAME:<br><br>MOULTRIE MUNI |     |                     |         | FACILITY IDENTIFIER:<br>GTP |       | PROCEDURE NO./AMD'T NO./EFFECTIVE DATE:<br>NDB-A, ORIG-B<br>21 JULY 2016                                                                                                                                                                                                                                                                                             |     |                                                      |         |     |     | SUP<br>AMD'T<br>DATE |  | ORIG-A<br>06/03/2010 |  |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## NDB STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.27

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KMGR

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| HARKE      | 010        | HARKE       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
| HARKE      | 020        | GTP         | TF          | FB    |     |            |            |       |             |               |                | AA 02400                           |                                       | N                          |
| HARKE      | 030        | GTP         | PI          | FB    |     | 143.9      | GTP        |       | R           |               |                | AA 02400                           |                                       | N A                        |
| HARKE      | 040        | GTP         | CF          | FB    |     | 008.9      | GTP        |       |             |               |                | AA 02000                           |                                       | NE                         |
|            | 020        | GTP         | IF          | FB    |     |            | GTP        |       |             | GTP           |                | AA 02000                           |                                       | N F                        |
|            | 030        | RW04        | CF          | FO    |     | 008.9      | GTP        | 0.00  |             |               |                | AT 00880                           |                                       | GY M                       |
|            | 040        | GTP         | DF          | FO    |     |            |            |       | R           |               |                | AA 02400                           |                                       | NYM                        |
|            | 050        | GTP         | HM          | FO    |     | 008.9      |            |       | R           |               |                | AA 02400                           |                                       | NE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| GTP        | N305727.18 | W0834936.01 |
| HARKE      | N310431.76 | W0840125.22 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW04   | N310449.77            | W0834834.17            | 00269                  |                  |
| RW16   | N310518.60            | W0834814.28            | 00288                  |                  |
| RW22   | N310529.29            | W0834757.15            | 00294                  |                  |
| RW34   | N310442.70            | W0834758.51            | 00270                  |                  |

QUALITY  
28  
CHECKED

CITY AND STATE  
MOULTRIE, GA

ELEVATION: **294** TDZE:  
AIRPORT NAME:  
MOULTRIE MUNI

FACILITY  
IDENTIFIER:  
GTP

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
NDB-A, ORIG-B,  
21 JULY 2016

SUP:  
AMDT: **ORIG-A**  
DATED: **06/03/2010**

|                                                                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------|--------|----------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------|--------|-----|---------|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                            |        | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                          |        | TO                                                                         |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                               |        | ALTITUDE                                                                         |         | ILS: DA<br>LOC: 4.45 MILES AFTER HOPRO/I-TMA 5.76 DME/RADAR OR AT I-TMA 1.31 DME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                     |        |     |         |  |
| OTK VOR/DME (IAF)                                                                                                                                                                                                                                                                                             |        | JUNOK/I-TMA 11.81 DME/RADAR (NOPT)                                         |         | 351.86 / 29.76                                                                                                                                                                                                                                                                                                                                                       |     |                               |        | 2200                                                                             |         | CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 2200 ON HEADING 130 AND OTK VOR/DME R-352 TO JUNOK/I-TMA 11.81DME/RADAR AND HOLD, OR AS DIRECTED BY ATC.<br><br>ALTERNATE MA: CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 2100 ON HEADING 030 AND ON VNA VORTAC R-178 TO ROCKM INT/VNA 25.99 DME AND HOLD S, RT, 358.48 INBOUND.<br><br>ADDITIONAL FLIGHT DATA:<br>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S ROCKM INT/VNA 25.99 DME, RT, 358.48 INBOUND.<br>CHART FAS OBST: 431 POLE 312407N/0832828W<br>CHART VDP AT 2.30 DME*<br>DISTANCE VDP TO THLD 1.00 MILES.<br>*LOC ONLY.<br>CHART IN PLANVIEW: ROCKM INT/VNA 25.99 DME.<br>CHART CIRCLING ICON |     |                                     |        |     |         |  |
| JUNOK/I-TMA 11.81 DME/RADAR (IF/IAF)                                                                                                                                                                                                                                                                          |        | HOPRO/I-TMA 5.76 DME/RADAR                                                 |         | 332.33 / 6.05 (I-TMA)                                                                                                                                                                                                                                                                                                                                                |     |                               |        | 1800                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
|                                                                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                          |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         | MAG VAR: 3W EPOCH YEAR: 1990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                     |        |     |         |  |
| 2. HOLD SE JUNOK, RT, 332.33 INBOUND, 2200 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                            |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 3. FAC: 332.33 FAF: HOPRO/I-TMA 5.76 DME/RADAR DIST FAF TO MAP: 4.45 THLD: 4.45                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 4. MIN. ALT: JUNOK 2200, HOPRO 1800, CAGEX/I-TMA 3.01 DME/RADAR 920*                                                                                                                                                                                                                                          |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 699                                                                                                                                                                                                                                      |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 6. MIN GS INCPT: 1800 GS ALT AT: HOPRO 1800 OM: - MM: - IM: -                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 7. GS ANGLE: 3.00 TCH: 43.4                                                                                                                                                                                                                                                                                   |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| 8. MSA FROM: KTMA 2500                                                                                                                                                                                                                                                                                        |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                      |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        | ALTERNATE: N A                                                                   |         | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                     |        |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                               |        | A                                                                          |         |                                                                                                                                                                                                                                                                                                                                                                      | B   |                               |        | C                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D   |                                     |        | E   |         |  |
|                                                                                                                                                                                                                                                                                                               | DH/MDA | VIS                                                                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                       | DH/MDA | VIS                                                                              | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                             | DH/MDA | VIS | HAT/HAA |  |
| S-ILS 33                                                                                                                                                                                                                                                                                                      | 638    | 3/4                                                                        | 284     | 638                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 284                           | 638    | 3/4                                                                              | 284     | 638                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 284                                 |        |     |         |  |
| S-LOC 33                                                                                                                                                                                                                                                                                                      | 700    | 3/4                                                                        | 346     | 700                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 346                           | 700    | 3/4                                                                              | 346     | 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 346                                 |        |     |         |  |
| CIRCLING                                                                                                                                                                                                                                                                                                      | 920    | 1                                                                          | 565     | 1060                                                                                                                                                                                                                                                                                                                                                                 | 1   | 705                           | 1060   | 2                                                                                | 705     | 1240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | 885                                 |        |     |         |  |
|                                                                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
|                                                                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
|                                                                                                                                                                                                                                                                                                               |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| NOTES:<br>CHART NOTE: DME OR RADAR REQUIRED.<br>CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MOULTRIE ALTIMETER SETTING;<br>INCREASE ALL DA TO 707 AND ALL MDA 80 FEET AND INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.<br>(CONTINUED ON PAGE 2) |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                               |        |                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                     |        |     |         |  |
| CITY AND STATE<br>TIFTON, GA                                                                                                                                                                                                                                                                                  |        | ELEVATION: 355 TDZE: 354<br>AIRPORT NAME:<br>HENRY TIFT MYERS              |         |                                                                                                                                                                                                                                                                                                                                                                      |     | FACILITY IDENTIFIER:<br>I-TMA |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 33, AMDT 2<br>7/21/2016 |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     | SUP:<br>AMDT: 1<br>DATED 07/26/2012 |        |     |         |  |



ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):  
CHART NOTE: VDP NA WHEN USING MOULTRIE ALTIMETER SETTING.  
CHART NOTE: FOR INOPERATIVE MALSR INCREASE S-LOC 33 ALL CATS VISIBILITY TO 1 MILE.  
CHART NOTE: FOR INOPERATIVE MALSR WHEN USING MOULTRIE ALTIMETER SETTING: INCREASE S-ILS 33 ALL CATS VISIBILITY TO 1 1/4 MILE AND INCREASE S-LOC 33 CAT A/B VISIBILITY TO 1 MILE.  
CHART NOTE: NIGHT LANDING: RWY 10 NA.  
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OTK VOR/DME ON V579 SOUTHBOUND.



|                              |                                                               |                               |                                                                                   |                   |
|------------------------------|---------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>TIFTON, GA | ELEVATION: 355 TDZE: 354<br>AIRPORT NAME:<br>HENRY TIFT MYERS | FACILITY IDENTIFIER:<br>I-TMA | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 33, AMDT 2<br>7/21/2016 | SUP:              |
|                              |                                                               |                               |                                                                                   | AMDT: 1           |
|                              |                                                               |                               |                                                                                   | DATED: 07/26/2012 |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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## ARINC SUMMARY - KTMA

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| JUNOK      | 010        | JUNOK       | HF          | FO    |     | 332.3      | VAD        |       | R           |               |                | AA 02200                           |                                       | EE A                       |
| OTK        | 010        | OTK         | FC          | FB    |     | 351.9      | OTK        |       |             |               |                | AA 02200                           |                                       | V A                        |
| OTK        | 020        | JUNOK       | CF          | FB    |     | 351.9      | ITMA       |       |             |               |                | AA 02200                           |                                       | EE B                       |
|            | 010        | JUNOK       | IF          | FB    |     |            | ITMA       |       |             |               |                | AA 02200 GI 01800                  |                                       | E I                        |
|            | 020        | HOPRO       | CF          | FB    |     | 332.0      | ITMA       | 3.00  |             | KTMA          |                | GI 01800 GS 01800                  |                                       | E F                        |
|            | 030        | RW33        | CF          | FO    |     | 332.0      | ITMA       | 3.00  |             |               |                | AT 00382                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 332.3      |            |       |             |               |                | AA 00900                           |                                       | M                          |
|            | 050        |             | VI          | FB    |     | 130.0      |            |       | R           |               |                |                                    |                                       |                            |
|            | 060        | JUNOK       | CF          | FO    |     | 171.9      | OTK        |       |             |               |                | AA 02200                           |                                       | EY                         |
|            | 070        | JUNOK       | HM          | FO    |     | 332.3      |            |       | R           |               |                | AA 02200                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| OTK        | N304649.60 | W0831647.02 |
| VAD (DME)  | N305736.30 | W0831136.42 |
| ITMA (DME) | N312620.68 | W0832957.87 |
| HOPRO      | N312124.17 | W0832629.47 |
| JUNOK      | N311611.16 | W0832253.74 |
| ITMA (LOC) | N312622.58 | W0832955.70 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW33   | N312514.42            | W0832908.58            | 00339                  | 43.4             |

QUALITY  
28  
CHECKED

CITY AND STATE  
TIFTON, GA

ELEVATION: 355 TDZE: 354  
AIRPORT NAME:  
HENRY TIFT MYERS

FACILITY  
IDENTIFIER:  
I-TMA

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 33, AMDT 2  
7/21/2016

SUP:  
AMDT: 1  
DATED: 07/26/2012

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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## ARINC SUMMARY - KTMA

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| JUNOK      | 010        | JUNOK       | HF          | FO    |     | 332.3      | VAD        |       | R           |               |                | AA 02200                           |                                       | EE A                       |
| OTK        | 010        | OTK         | FC          | FB    |     | 351.9      | OTK        |       |             |               |                | AA 02200                           |                                       | V A                        |
| OTK        | 020        | JUNOK       | CF          | FB    |     | 351.9      | ITMA       |       |             |               |                | AA 02200                           |                                       | EE B                       |
|            | 010        | JUNOK       | IF          | FB    |     |            | ITMA       |       |             |               |                | AA 02200                           |                                       | E I                        |
|            | 020        | HOPRO       | CF          | FB    |     | 332.0      | ITMA       |       |             | KTMA          |                | AA 01800                           |                                       | E F                        |
|            | 021        | CAGEX       | CF          | FB    |     | 332.0      | ITMA       | 3.01  |             |               |                | AA 00920                           |                                       | E S                        |
|            | 030        | RW33        | CF          | FO    |     | 332.0      | ITMA       | 3.01  |             |               |                | AT 00382                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 332.3      |            |       |             |               |                | AA 00900                           |                                       | M                          |
|            | 050        |             | VI          | FB    |     | 130.0      |            |       | R           |               |                |                                    |                                       |                            |
|            | 060        | JUNOK       | CF          | FO    |     | 171.9      | OTK        |       |             |               |                | AA 02200                           |                                       | EY                         |
|            | 070        | JUNOK       | HM          | FO    |     | 332.3      |            |       | R           |               |                | AA 02200                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| OTK        | N304649.60 | W0831647.02 |
| VAD (DME)  | N305736.30 | W0831136.42 |
| ITMA (DME) | N312620.68 | W0832957.87 |
| CAGEX      | N312346.49 | W0832807.81 |
| HOPRO      | N312124.17 | W0832629.47 |
| JUNOK      | N311611.16 | W0832253.74 |
| ITMA (LOC) | N312622.58 | W0832955.70 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW33   | N312514.42            | W0832908.58            | 00339                  | 43.4             |

QUALITY  
28  
CHECKED

CITY AND STATE  
TIFTON, GA

ELEVATION: 355 TDZE: 354  
AIRPORT NAME:  
HENRY TIFT MYERS

FACILITY  
IDENTIFIER:  
I-TMA

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 33, AMDT 2  
7/21/2016

SUP:  
AMDT: 1  
DATED: 07/26/2012

|                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|---------------------------------------------------------------|-----|---------|-----------------------------------------------------------------------------|---------------------------------|---------|--------------------------------------------------------------------------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                              |        |     |         |                                                               |     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            | MISSED APPROACH              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                            |        |     |         | TO                                                            |     |         | COURSE AND DISTANCE                                                         |                                 |         |                                                                                | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW15<br><br>CLIMB TO 2200 DIRECT JUNOK AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD SE, RT, 332.39 INBOUND.<br>CHART FAS OBST: 756 TOWER 312714N/0833116W<br>DISTANCE TO THLD FROM 266 HAT: 0.70 NM.<br>CHART VDP AT 1.95 MILES TO RW15*<br>*LNAV ONLY.<br>WAAS CHANNEL # 62839<br>REFERENCE PATH ID: W15A<br>CHART CIRCLING ICON<br>LTP HAE: 80.7 M |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| PZD VORTAC (IAF)                                                                                                                                                                                                                                                                                                                |        |     |         | GAPME (FB)                                                    |     |         | 098.46 / 35.25                                                              |                                 |         |                                                                                | 2200     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| GAPME (IF/IAF)                                                                                                                                                                                                                                                                                                                  |        |     |         | FEBUL (FB)                                                    |     |         | 152.27 / 6.20                                                               |                                 |         |                                                                                | 2000     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FEBUL (FAF)                                                                                                                                                                                                                                                                                                                     |        |     |         | RW15 (MAP) (FO)                                               |     |         | 152.30 / 5.03                                                               |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RW15 (MAP)                                                                                                                                                                                                                                                                                                                      |        |     |         | 621 MSL                                                       |     |         | 152.30                                                                      |                                 |         |                                                                                | 2200     |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 621 MSL                                                                                                                                                                                                                                                                                                                         |        |     |         | JUNOK (FO)                                                    |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                            |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            | MAG VAR: 3W EPOCH YEAR: 1990 |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 2. HOLD NW GAPME, RT, 152.27 INBOUND, 2200 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                              |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 3. FAC: 152.30 FAF: FEBUL DIST FAF TO MAP: 5.03 THLD: 5.03                                                                                                                                                                                                                                                                      |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 4. MIN. ALT: GAPME 2200, FEBUL 2000                                                                                                                                                                                                                                                                                             |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                  |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 6. MIN GS INCPT: 2000 GS ALT AT: FEBUL 2000 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 46.0 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                   |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 8. MSA FROM: RW15 2500                                                                                                                                                                                                                                                                                                          |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                        |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         | ALTERNATE: N A X                                                            |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                 |        | A   |         |                                                               | B   |         |                                                                             | C                               |         |                                                                                | D        |         |                                                                                                                                                                                                                                                                                                                                                                                            | E                            |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                 | DH/MDA | VIS | HAT/HAA | DH/MDA                                                        | VIS | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                         | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                     | VIS                          | HAT/HAA                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                          | 621    | 7/8 | 266     | 621                                                           | 7/8 | 266     | 621                                                                         | 7/8                             | 266     | 621                                                                            | 7/8      | 266     |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                    | 1100   | 3   | 745     | 1100                                                          | 3   | 745     | 1100                                                                        | 3                               | 745     | 1100                                                                           | 3        | 745     |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                        | 1020   | 1   | 665     | 1020                                                          | 1   | 665     | 1020                                                                        | 1 7/8                           | 665     | 1020                                                                           | 1 7/8    | 665     |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                        | 1020   | 1   | 665     | 1060                                                          | 1   | 705     | 1060                                                                        | 2                               | 705     | 1240                                                                           | 3        | 885     |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).<br>CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MOULTRIE ALTIMETER SETTING.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>(CONTINUED ON PAGE 2) |        |     |         |                                                               |     |         |                                                                             |                                 |         |                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CITY AND STATE<br>TIFTON, GA                                                                                                                                                                                                                                                                                                    |        |     |         | ELEVATION: 355 TDZE: 355<br>AIRPORT NAME:<br>HENRY TIFT MYERS |     |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 15, ORIG<br>7/21/2016 |          |         |                                                                                                                                                                                                                                                                                                                                                                                            |                              | SUP:<br>AMDT: NONE<br>DATED |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |



**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**NOTES, (CONT.):****CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MOULTRIE ALTIMETER SETTING: INCREASE****LPV DA TO 690 FEET AND LNAV/VNAV DA TO 1169 FEET AND ALL MDA 80 FEET; INCREASE LPV ALL CATS****VISIBILITY AND LNAV CAT B VISIBILITY 1/4 MILE, INCREASE LNAV CAT C/D VISIBILITY 1/8 MILE AND****CIRCLING CAT B/C VISIBILITY 1/4 MILE.****CHART NOTE: NIGHT LANDING: RWY 10 NA.****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PZD VORTAC AIRWAY RADIALS 030 CW 186.**

QUALITY  
25  
CHECKED

CITY AND STATE

TIFTON, GA

**ELEVATION: 355****TDZE: 355**

AIRPORT NAME:

HENRY TIFT MYERS

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**RNAV (GPS) RWY 15, ORIG****7/21/2016**

SUP:

AMDT: **NONE**

DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KTMA          |
| RUNWAY                                   | RW15          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W15A          |
| LTP/FTP LATITUDE                         | 312609.8050N  |
| LTP/FTP LONGITUDE                        | 0832946.8745W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00807        |
| FPAP LATITUDE                            | 312452.9975N  |
| FPAP LONGITUDE                           | 0832853.7630W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00046.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0768          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>20B47E6D  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01074 |
| FPAP ORTHOMETRIC HEIGHT | +01074 |

QUALITY  
25  
CHECKED

|                                  |                                                         |                       |                                                                                        |            |
|----------------------------------|---------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|------------|
| CITY AND STATE<br><br>TIFTON, GA | ELEVATION: 355<br>AIRPORT NAME:<br><br>HENRY TIFT MYERS | TDZE: 355<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 15, ORIG<br><br>7/21/2016 | SUP:       |
|                                  |                                                         |                       |                                                                                        | AMDT: NONE |
|                                  |                                                         |                       |                                                                                        | DATED:     |

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KTMA

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| GAPME      | 010        | GAPME       | HF          | FO    |     | 152.3      |            |       | R           |               |                | AA 02200                           |                                       | EE A                       |
| PZD        | 010        | PZD         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| PZD        | 020        | GAPME       | TF          | FB    | 1.0 | 098.5      |            |       |             |               |                | AA 02200                           |                                       | EE B                       |
|            | 010        | GAPME       | IF          | FB    |     |            |            |       |             |               |                | AA 02200                           |                                       | E I                        |
|            | 020        | FEBUL       | TF          | FB    | 1.0 | 152.3      |            |       |             | RW15          |                | AA 02000                           |                                       | E F                        |
|            | 030        | RW15        | TF          | FO    | 0.3 | 152.3      |            | 3.00  |             |               |                | AT 00398                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 152.3      |            |       |             |               |                | AA 00621                           |                                       | M                          |
|            | 050        | JUNOK       | DF          | FO    |     |            |            |       |             |               |                | AA 02200                           |                                       | EY                         |
|            | 060        | JUNOK       | HM          | FO    |     | 332.4      |            |       | R           |               |                | AA 02200                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| PZD        | N313918.74 | W0841734.16 |
| FEBUL      | N313029.92 | W0833246.95 |
| GAPME      | N313550.44 | W0833629.30 |
| JUNOK      | N311611.16 | W0832253.74 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW15   | N312609.81            | W0832946.87            | 00352                  | 46               |

**QUALITY  
25  
CHECKED**

|                                     |                                          |                                            |                                                                                                      |                   |
|-------------------------------------|------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><b>TIFTON, GA</b> | ELEVATION: <b>355</b> <b>TDZE: 355</b>   | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 15, ORIG</b><br><br><b>7/21/2016</b> | SUP:              |
|                                     | AIRPORT NAME:<br><b>HENRY TIFT MYERS</b> |                                            |                                                                                                      | AMDT: <b>NONE</b> |
|                                     |                                          |                                            |                                                                                                      | DATED:            |

|                                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------|--------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                     |        | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         | MISSED APPROACH                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                   |        | TO                                                                          |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                  |        | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW28                                                                                                                                                                                                                        |     |                                          |        |     |         |
| OTK VOR/DME (IAF)                                                                                                                                                                                                                                                                                                                                      |        | ZOKAD (NOPT) (FB)                                                           |         | 004.21 / 38.09                                                                                                                                                                                                                                                                                                                                                       |     |                                                                                  |        | 2000     |         | CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2000 DIRECT ZOKAD AND HOLD.                                                                                                                                                                                          |     |                                          |        |     |         |
| ZOKAD (IF/IAF)                                                                                                                                                                                                                                                                                                                                         |        | YEPUB (FB)                                                                  |         | 277.56 / 6.03                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                  |        | 2000     |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| YEPUB (FAF)                                                                                                                                                                                                                                                                                                                                            |        | XATAH/1.60 NM TO RW28 (FB)                                                  |         | 277.48 / 3.49                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| XATAH/1.60 NM TO RW28                                                                                                                                                                                                                                                                                                                                  |        | RW28 (MAP) (FO)                                                             |         | 277.48 / 1.60                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| RW28 (MAP)                                                                                                                                                                                                                                                                                                                                             |        | 800 MSL                                                                     |         | 277.48                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                  |        | 800      |         | ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 438 TREE 312528N/0832820W<br>DISTANCE TO THLD FROM 254 HAT: 0.71 NM.<br>CHART VDP AT 1.07 NM TO RW28*<br>*LNAV ONLY.<br>WAAS CHANNEL # 53339<br>REFERENCE PATH ID: W28A<br>CHART CIRCLING ICON.<br>LTP HAE: 76.6 M |     |                                          |        |     |         |
| 800 MSL                                                                                                                                                                                                                                                                                                                                                |        | ZOKAD (FO)                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        | 2000     |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                   |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         | MAG VAR: 3W EPOCH YEAR: 1990                                                                                                                                                                                                                                  |     |                                          |        |     |         |
| 2. HOLD E ZOKAD, RT, 277.56 INBOUND, 2000 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                      |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 3. FAC: 277.48 FAF: YEPUB DIST FAF TO MAP: 5.09 THLD: 5.09                                                                                                                                                                                                                                                                                             |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 4. MIN. ALT: ZOKAD 2000, YEPUB 2000, XATAH/1.60 NM TO RW28 880*                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                         |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 6. MIN GS INCPT: 2000 GS ALT AT: YEPUB 2000 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| 8. MSA FROM: RW28 2500                                                                                                                                                                                                                                                                                                                                 |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                               |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                        |        |                                                                             |         | ALTERNATE: N A X                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                        |        | A                                                                           |         | B                                                                                                                                                                                                                                                                                                                                                                    |     | C                                                                                |        | D        |         | E                                                                                                                                                                                                                                                             |     |                                          |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                        | DH/MDA | VIS                                                                         | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                                                                          | DH/MDA | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                        | VIS | HAT/HAA                                  | DH/MDA | VIS | HAT/HAA |
| LPV DA                                                                                                                                                                                                                                                                                                                                                 | 604    | 1                                                                           | 254     | 604                                                                                                                                                                                                                                                                                                                                                                  | 1   | 254                                                                              | 604    | 1        | 254     | 604                                                                                                                                                                                                                                                           | 1   | 254                                      |        |     |         |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                           | 628    | 1                                                                           | 278     | 628                                                                                                                                                                                                                                                                                                                                                                  | 1   | 278                                                                              | 628    | 1        | 278     | 628                                                                                                                                                                                                                                                           | 1   | 278                                      |        |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                               | 720    | 1                                                                           | 370     | 720                                                                                                                                                                                                                                                                                                                                                                  | 1   | 370                                                                              | 720    | 1        | 370     | 720                                                                                                                                                                                                                                                           | 1   | 370                                      |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                               | 920    | 1                                                                           | 565     | 1060                                                                                                                                                                                                                                                                                                                                                                 | 1   | 705                                                                              | 1060   | 2        | 705     | 1240                                                                                                                                                                                                                                                          | 3   | 885                                      |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).<br>CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MOULTRIE ALTIMETER SETTING.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MOULTRIE ALTIMETER SETTING: INCREASE<br>(CONTINUED ON PAGE 2) |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                  |        |          |         |                                                                                                                                                                                                                                                               |     |                                          |        |     |         |
| CITY AND STATE<br>TIFTON, GA                                                                                                                                                                                                                                                                                                                           |        | ELEVATION: 355 TDZE: 350<br>AIRPORT NAME:<br>HENRY TIFT MYERS               |         | FACILITY<br>IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                      |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 28, AMDT 1<br>7/21/2016 |        |          |         |                                                                                                                                                                                                                                                               |     | SUP:<br>AMDT: ORIG-A<br>DATED 01/10/2013 |        |     |         |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

LPV DA TO 673 FEET AND LNAV/VNAV DA TO 689 FEET AND ALL MDA 80 FEET; INCREASE LPV ALL CATS AND LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE, LNAV CAT C/D VISIBILITY 1/4 MILE, AND INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.  
CHART NOTE: STRAIGHT-IN MINIMUMS NA AT NIGHT.  
CHART NOTE: CIRCLING RWY 10 NA AT NIGHT.  
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OTK VOR/DME ON V579 SOUTHBOUND

QUALITY  
25  
CHECKED

|                              |                                                     |           |                                 |                                                                                  |                   |
|------------------------------|-----------------------------------------------------|-----------|---------------------------------|----------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>TIFTON, GA | ELEVATION: 355<br>AIRPORT NAME:<br>HENRY TIFT MYERS | TDZE: 350 | FACILITY<br>IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 28, AMDT 1<br>7/21/2016 | SUP:              |
|                              |                                                     |           |                                 |                                                                                  | AMDT: ORIG-A      |
|                              |                                                     |           |                                 |                                                                                  | DATED: 01/10/2013 |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KTMA          |
| RUNWAY                                   | RW28          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W28A          |
| LTP/FTP LATITUDE                         | 312552.2295N  |
| LTP/FTP LONGITUDE                        | 0832848.1480W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00766        |
| FPAP LATITUDE                            | 312559.1150N  |
| FPAP LONGITUDE                           | 0833031.9790W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1592          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>5F4DBD3E  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01032 |
| FPAP ORTHOMETRIC HEIGHT | +01032 |

QUALITY  
25  
CHECKED

|                                  |                                                         |                       |                                                                                          |                   |
|----------------------------------|---------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>TIFTON, GA | ELEVATION: 355<br>AIRPORT NAME:<br><br>HENRY TIFT MYERS | TDZE: 350<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 28, AMDT 1<br><br>7/21/2016 | SUP:              |
|                                  |                                                         |                       |                                                                                          | AMDT: ORIG-A      |
|                                  |                                                         |                       |                                                                                          | DATED: 01/10/2013 |

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KTMA

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| OTK        | 010        | OTK         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| OTK        | 020        | ZOKAD       | TF          | FB    | 1.0 | 004.2      |            |       |             |               |                | AA 02000                           |                                       | EE B                       |
| ZOKAD      | 010        | ZOKAD       | HF          | FO    |     | 277.6      |            |       | R           |               |                | AA 02000                           |                                       | EE A                       |
|            | 010        | ZOKAD       | IF          | FB    |     |            |            |       |             |               |                | AA 02000                           |                                       | E I                        |
|            | 020        | YEPUB       | TF          | FB    | 1.0 | 277.6      |            |       |             | RW28          |                | AA 02000                           |                                       | E F                        |
|            | 021        | XATAH       | TF          | FB    | 0.3 | 277.5      |            | 3.00  |             |               |                | AA 00880 GS 00888                  |                                       | E S                        |
|            | 030        | RW28        | TF          | FO    | 0.3 | 277.5      |            | 3.00  |             |               |                | AT 00379                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 277.5      |            |       |             |               |                | AA 00800                           |                                       | M                          |
|            | 050        | ZOKAD       | DF          | FO    |     |            |            |       | R           |               |                | AA 02000                           |                                       | EY                         |
|            | 060        | ZOKAD       | HM          | FO    |     | 277.6      |            |       | R           |               |                | AA 02000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| OTK        | N304649.60 | W0831647.02 |
| XATAH      | N312544.78 | W0832656.28 |
| YEPUB      | N312528.45 | W0832252.21 |
| ZOKAD      | N312459.81 | W0831550.79 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW28   | N312552.23            | W0832848.15            | 00339                  | 40               |

QUALITY  
25  
CHECKED

|                                     |                                          |                                            |                                            |                          |
|-------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>TIFTON, GA</b> | ELEVATION: <b>355</b> <b>TDZE: 350</b>   | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                     | AIRPORT NAME:<br><b>HENRY TIFT MYERS</b> |                                            | <b>RNAV (GPS) RWY 28, AMDT 1</b>           | AMDT: <b>ORIG-A</b>      |
|                                     |                                          |                                            | <b>7/21/2016</b>                           | DATED: <b>01/10/2013</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|---------|--------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------|------------------|-----|---------|------------------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                   |         |                          |     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     | <b>MISSED APPROACH</b> |                                        |                  |     |         |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | TO                |         | COURSE AND DISTANCE      |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTITUDE                  |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW33<br><br>CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 2200 DIRECT JUNOK AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>FAS OBST: 520 AAO 312224N/0832703W<br>DISTANCE TO THLD FROM 284 HAT: 0.80 NM.<br>CHART VDP AT 1.24 MILES TO RW33*<br>*LNAV ONLY.<br>WAAS CHANNEL # 61118<br>REFERENCE PATH ID: W33A<br>CHART CIRCLING ICON.<br>LTP HAE: 76.7 M |                        |                                        |                  |     |         |                  |  |
| OTK VOR/DME (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | JUNOK (NOPT) (FB) |         | 352.86 / 29.76           |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 2200                      |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| JUNOK (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | HOPRO (FB)        |         | 332.39 / 6.05            |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 1800                      |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| HOPRO (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | RW33 (MAP) (FO)   |         | 332.36 / 4.45            |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| RW33 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | 900 MSL           |         | 332.36                   |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 900                       |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| 900 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | JUNOK (FO)        |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 2200                      |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD SE JUNOK, RT, 332.39 INBOUND, 2200 FT. IN LIEU OF PT (IAF)<br>3. FAC: 332.36 FAF: HOPRO DIST FAF TO MAP: 4.45 THLD: 4.45<br>4. MIN. ALT: JUNOK 2200, HOPRO 1800<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 1800 GS ALT AT: HOPRO 1800 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 43.4 34:1 IS NOT CLEAR<br>8. MSA FROM: RW33 2500 |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     | MAG VAR: 3W            |                                        | EPOCH YEAR: 1990 |     |         |                  |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTERNATE: N A            |         | X                                                                                                                                                                                                                                                                                                                                                                                   |                        |                                        |                  |     |         |                  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | A                 |         |                          | B   |                                                                                                                                                                                                                                                                                                                                                                      |        | C                         |         |                                                                                                                                                                                                                                                                                                                                                                                     | D                      |                                        |                  | E   |         |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DH/MDA | VIS               | HAT/HAA | DH/MDA                   | VIS | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                       | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                              | VIS                    | HAT/HAA                                | DH/MDA           | VIS | HAT/HAA |                  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 638    | 3/4               | 284     | 638                      | 3/4 | 284                                                                                                                                                                                                                                                                                                                                                                  | 638    | 3/4                       | 284     | 638                                                                                                                                                                                                                                                                                                                                                                                 | 3/4                    | 284                                    |                  |     |         |                  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 684    | 3/4               | 330     | 684                      | 3/4 | 330                                                                                                                                                                                                                                                                                                                                                                  | 684    | 3/4                       | 330     | 684                                                                                                                                                                                                                                                                                                                                                                                 | 3/4                    | 330                                    |                  |     |         |                  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 780    | 3/4               | 426     | 780                      | 3/4 | 426                                                                                                                                                                                                                                                                                                                                                                  | 780    | 3/4                       | 426     | 780                                                                                                                                                                                                                                                                                                                                                                                 | 3/4                    | 426                                    |                  |     |         |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 920    | 1                 | 565     | 1060                     | 1   | 705                                                                                                                                                                                                                                                                                                                                                                  | 1060   | 2                         | 705     | 1240                                                                                                                                                                                                                                                                                                                                                                                | 3                      | 885                                    |                  |     |         |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| NOTES:<br>CHART NOTE: BARO-VNAV NA WHEN USING MOULTRIE ALTIMETER SETTING.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MOULTRIE ALTIMETER SETTING: INCREASE<br>(CONTINUED ON PAGE 2)                                                                                                                                                                            |        |                   |         |                          |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                        |                  |     |         |                  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                   |         | ELEVATION: 355 TDZE: 354 |     |                                                                                                                                                                                                                                                                                                                                                                      |        | FACILITY IDENTIFIER: RNAV |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |                  |     |         | SUP:             |  |
| TIFTON, GA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                   |         | AIRPORT NAME:            |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        | RNAV (GPS) RWY 33, AMDT 1              |                  |     |         | AMDT: ORIG-B     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                   |         | HENRY TIFT MYERS         |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                           |         |                                                                                                                                                                                                                                                                                                                                                                                     |                        | 7/21/2016                              |                  |     |         | DATED 01/10/2013 |  |





**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

LPV DA TO 707 FEET AND LNAV/VNAV DA TO 753 FEET AND ALL MDA 80 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY, LNAV CAT C/D VISIBILITY AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 MILE, AND LNAV CAT A/B VISIBILITY TO 1 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING MOULTRIE ALTIMETER SETTING, INCREASE LPV VISIBILITY ALL CATS TO 1 1/4 MILE, LNAV/VNAV VISIBILITY ALL CATS TO 1 3/8 MILE, LNAV CATS A/B VISIBILITY TO 1 MILE, AND LNAV CATS C/D VISIBILITY TO 1 3/8 MILE.

CHART NOTE: CIRCLING RWY 10 NA AT NIGHT.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: VDP NA WHEN USING MOULTRIE ALTIMETER SETTING.

QUALITY  
25  
CHECKED

|                                  |                  |           |                                     |                                                                                          |                   |
|----------------------------------|------------------|-----------|-------------------------------------|------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>TIFTON, GA | ELEVATION: 355   | TDZE: 354 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 33, AMDT 1<br><br>7/21/2016 | SUP:              |
|                                  | AIRPORT NAME:    |           |                                     |                                                                                          | AMDT: ORIG-B      |
|                                  | HENRY TIFT MYERS |           |                                     |                                                                                          | DATED: 01/10/2013 |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KTMA          |
| RUNWAY                                   | RW33          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W33A          |
| LTP/FTP LATITUDE                         | 312514.4230N  |
| LTP/FTP LONGITUDE                        | 0832908.5780W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00767        |
| FPAP LATITUDE                            | 312631.2325N  |
| FPAP LONGITUDE                           | 0833001.6895W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00043.4       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0768          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

65B595C4

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01033 |
| FPAP ORTHOMETRIC HEIGHT | +01033 |

QUALITY  
25  
CHECKED

CITY AND STATE

TIFTON, GA

ELEVATION: 355

TDZE: 354

AIRPORT NAME:

HENRY TIFT MYERS

 FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 33, AMDT 1

7/21/2016

SUP:

AMDT: ORIG-B

DATED: 01/10/2013

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KTMA

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| JUNOK      | 010        | JUNOK       | HF          | FO    |     | 332.4      |            |       | R           |               |                | AA 02200                           |                                       | EE A                       |
| OTK        | 010        | OTK         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V A                        |
| OTK        | 020        | JUNOK       | TF          | FB    | 1.0 | 352.9      |            |       |             |               |                | AA 02200                           |                                       | EE B                       |
|            | 010        | JUNOK       | IF          | FB    |     |            |            |       |             |               |                | AA 02200                           |                                       | E I                        |
|            | 020        | HOPRO       | TF          | FB    | 1.0 | 332.4      |            |       |             | RW33          |                | AA 01800                           |                                       | E F                        |
|            | 030        | RW33        | TF          | FO    | 0.3 | 332.4      |            | 3.00  |             |               |                | AT 00382                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 332.4      |            |       |             |               |                | AA 00900                           |                                       | M                          |
|            | 050        | JUNOK       | DF          | FO    |     |            |            |       | R           |               |                | AA 02200                           |                                       | EY                         |
|            | 060        | JUNOK       | HM          | FO    |     | 332.4      |            |       | R           |               |                | AA 02200                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| OTK        | N304649.60 | W0831647.02 |
| HOPRO      | N312124.17 | W0832629.47 |
| JUNOK      | N311611.16 | W0832253.74 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW33   | N312514.42            | W0832908.58            | 00339                  | 43               |

QUALITY  
25  
CHECKED

|                                     |                                          |                                            |                                                                                                        |                          |
|-------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>TIFTON, GA</b> | ELEVATION: <b>355</b> <b>TDZE: 354</b>   | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 33, AMDT 1</b><br><br><b>7/21/2016</b> | SUP:                     |
|                                     | AIRPORT NAME:<br><b>HENRY TIFT MYERS</b> |                                            |                                                                                                        | AMDT: <b>ORIG-B</b>      |
|                                     |                                          |                                            |                                                                                                        | DATED: <b>01/10/2013</b> |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport          | Effective Date | Amdt. No. |
|-------------|------------------|----------------|-----------|
| TIFTON, GA  | HENRY TIFT MYERS | 7/21/2016      | 6         |

**TAKEOFF MINIMUMS:**

**RWY 10, 15, 28: STANDARD.**

**RWY 33, 400-2 ¼ OR STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 900.**

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 28: CLIMB HEADING 277.43 TO 1200 BEFORE TURNING RIGHT.**

**RWY 33: CLIMB HEADING 332.34 TO 900 BEFORE TURNING LEFT.**

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 15, TREE, POLE, BEGINNING 293 FT FROM DER, 440 FT RIGHT OF CENTERLINE, UP TO 378 FT MSL.**

**TREES, BEGINNING 566 FT FROM DER, 520 FT LEFT OF CENTERLINE, UP TO 376 FT MSL. TREES, BEGINNING 604 FT FROM DER, 441 FT RIGHT OF CENTERLINE, UP TO 417 FT MSL. TREES, BEGINNING 972 FT FROM DER, 552 FT LEFT OF CENTERLINE, UP TO 380 FT MSL.**

**NOTE: RWY 28, TREES, BEGINNING 1074 FT FROM DER, 312 FT LEFT OF CENTERLINE, UP TO 410 FT MSL.**

**TREES, BEGINNING 1244 FT FROM DER, 24 FT LEFT OF CENTERLINE, UP TO 419 FT MSL. TREES, BEGINNING 1295 FT FROM DER, 87 FT RIGHT OF CENTERLINE, UP TO 415 FT MSL. TREE 1323 FT FROM DER, 827 FT LEFT OF CENTERLINE, 421 FT MSL. TREE 1323 FT FROM DER, 297 FT LEFT OF CENTERLINE, 420 FT MSL. TREE 1401 FT FROM DER, 155 FT LEFT OF CENTERLINE, 424 FT MSL. TREE, POLE, BEGINNING 1408 FT FROM DER, 7 FT LEFT OF CENTERLINE, UP TO 430 FT MSL. TREE 1454 FT FROM DER, 529 FT RIGHT OF CENTERLINE, and 418 FT MSL. TREES, BEGINNING 1480 FT FROM DER, 209 FT RIGHT OF CENTERLINE, UP TO 425 FT MSL. TREES, BEGINNING 1555 FT FROM DER, 124 FT RIGHT OF CENTERLINE, UP TO 429 FT MSL. TREES, BEGINNING 1689 FT FROM DER, 176 FT RIGHT OF CENTERLINE, UP TO 431 FT MSL. TREES, BEGINNING 1726 FT FROM DER, 12 FT RIGHT OF CENTERLINE, UP TO 433 FT MSL. TREES, BEGINNING 1899 FT FROM DER, 23 FT RIGHT OF CENTERLINE, UP TO 441 FT MSL. TREES, BEGINNING 2743 FT FROM DER, 82 FT LEFT OF CENTERLINE, UP TO 434 FT MSL. TREES, BEGINNING 3117 FT FROM DER, 312 FT RIGHT OF CENTERLINE, UP TO 450 FT MSL.**

**NOTE: RWY 33, TREE, POLE, BEGINNING 184 FT FROM DER, 424 FT LEFT OF CENTERLINE, UP TO 398 FT MSL.**

**TREE 341 FT FROM DER, 488 FT LEFT OF CENTERLINE, 409 FT MSL. TREES, BEGINNING 515 FT FROM DER, 486 FT LEFT OF CENTERLINE, UP TO 417 FT MSL. TREES, BEGINNING 667 FT FROM DER, 372 FT RIGHT OF CENTERLINE, UP TO 416 FT MSL. TREE 1004 FT FROM DER, 477 FT LEFT OF CENTERLINE, 422 FT MSL. TREES, BEGINNING 1059 FT FROM DER, 338 FT LEFT OF CENTERLINE, UP TO 423 FT MSL. TREES, BEGINNING 1265 FT FROM DER, 345 FT RIGHT OF CENTERLINE, UP TO 420 FT MSL. TREES, BEGINNING 1440 FT FROM DER, 444 FT RIGHT OF CENTERLINE, UP TO 423 FT MSL. TREES, BEGINNING 1547 FT FROM DER, 413 FT RIGHT OF CENTERLINE, UP TO 433 FT MSL. TREES, BEGINNING 1631 FT FROM DER, 290 FT RIGHT OF CENTERLINE, UP TO 435 FT MSL. TREE 1895 FT FROM DER, 997 FT LEFT OF CENTERLINE, 424 FT MSL. TREES, BEGINNING 2018 FT FROM DER, 618 FT LEFT OF CENTERLINE, UP TO 434 FT MSL. TREES, BEGINNING 2585 FT FROM DER, 134 FT LEFT OF CENTERLINE, UP TO 451 FT MSL. TREE 3459 FT FROM DER, 397 FT RIGHT OF CENTERLINE, and 443 FT MSL. TOWER 5634 FT FROM DER, 1323 FT RIGHT OF CENTERLINE, 155 FT AGL/523 FT MSL. TOWER 1.2 NM FROM DER, 272 FT RIGHT OF CENTERLINE, 190 FT AGL/569 FT MSL. TOWER, ANT, BEGINNING 1.4 NM FROM DER, 792 FT LEFT OF CENTERLINE, UP TO 349 FT AGL/688 FT MSL. TOWER 1.9 NM FROM DER, 816 FT LEFT OF CENTERLINE, 292 FT AGL/652 FT MSL.**

**CONTROLLING OBSTACLES:**

**RWY 33: 688 FT MSL TOWER 312714.00N/0833103.00W (CLIMB GRADIENT, CLIMB-TO-ALTITUDE, CEILING).  
652 FT MSL TOWER 312744.00N/0833103.00W (VISIBILITY).**

**OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:**

**RWY 28: 938 FT MSL TOWER 312717.40N/0833337.30W.**

**RWY 33: 756 FT MSL TOWER 312714.00N/0833116.00W.**



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport          | Effective Date | Amdt. No. |
|-------------|------------------|----------------|-----------|
| TIFTON, GA  | HENRY TIFT MYERS | 7/21/2016      | 6         |

**REMARKS:**

**FLIGHT INSPECTED BY:**

Pending

**REQUIRED EFFECTIVE DATE:**

7/21/2016

**DEVELOPED BY:** *Digitally signed by*

LIAM DONAHUE **LIAM DONAHUE** AJV-5412 02/08/2016  
Mar 31, 2016

**APPROVED BY:**

MARLON ROBINSON *Digitally signed by*  
AJV-5410 **JULIE A MORGAN**  
Jun 13, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZJX, AMGR, VAD APP CON

**CHANGES:**

1. CHANGED RWY 33 TAKEOFF MINIMUMS FROM 400-2 OR STANDARD WITH A MINIMUM CLIMB OF 250 FT PER NM TO 900 TO 400-2 ¼ OR STANDARD WITH A MINIMUM CLIMB OF 360 FT PER NM TO 900.
2. CHANGED RWY 28 DEPARTURE PROCEDURE FROM BEFORE TURNING NORTHBOUND TO BEFORE TURNING RIGHT.
3. ADDED DEPARTURE PROCEDURE FOR RWY 33.
4. UPDATED TAKEOFF OBSTACLE NOTES

**REASONS:**

1. NEW SURVEY AND CALCULATIONS.
2. LOCATION OF THE MANDATING OBSTACLE JUST OUTSIDE OF THE EXTENDED ICA.
3. OBSTACLE 13-000131 PENETRATES DIVERSE AREA A.
4. RUNWAY 15 EXTENSION AND NEW SURVEY.



|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------|-----|---------------------|--|-----------------------------|-----|----------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|--|-----------------------------------|-----|--|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |  |                                                                   |     |                     |  |                             |     |                                                                            |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |  |  |                                   |     |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| FROM                                                                                                                                                                    |  | TO                                                                |     | COURSE AND DISTANCE |  |                             |     | ALTITUDE                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  | ADDITIONAL FLIGHT DATA:                                                                                                                                                                                                                                                                                                                                               |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| 1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| 2. _____                                                                                                                                                                |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| 3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____                                                                                                                   |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| 4. MIN. ALT _____                                                                                                                                                       |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| 8. MSA FROM: _____                                                                                                                                                      |  |                                                                   |     |                     |  |                             |     |                                                                            |  | MAG VAR: _____ EPOCH YEAR: _____                                                                                                                                                                                                                                                                                                                                      |     |  |  |                                   |     |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                        |     |  |  |                                   |     |  |  |  |  |
| CATEGORY =====>                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  | MDA                                                               | VIS |                     |  | MDA                         | VIS |                                                                            |  | MDA                                                                                                                                                                                                                                                                                                                                                                   | VIS |  |  | MDA                               | VIS |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
|                                                                                                                                                                         |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| NOTES:                                                                                                                                                                  |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| PROCEDURE CANCELED EFFECTIVE 07/21/2016                                                                                                                                 |  |                                                                   |     |                     |  |                             |     |                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  |                                   |     |  |  |  |  |
| CITY AND STATE<br>TIFTON, GA                                                                                                                                            |  | ELEVATION: 355 TDZE: 350<br>AIRPORT NAME:<br><br>HENRY TIFT MYERS |     |                     |  | FACILITY IDENTIFIER:<br>IFM |     | PROCEDURE NO./AMDТ NO./EFFECTIVE DATE:<br>VOR RWY 28, AMDT 10A, 01/10/2013 |  |                                                                                                                                                                                                                                                                                                                                                                       |     |  |  | SUP<br>AMDТ 10<br>DATE 09/23/2010 |     |  |  |  |  |

|                                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
|------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|-----|---------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-----|-------------------------|--------|---------------------------------------------|-------------------|--------|-----|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                             |  | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |     |                     |        | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| TERMINAL ROUTES                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     | MISSED APPROACH         |        |                                             |                   |        |     |
| FROM                                                                                           |  | TO                                                                          |     | COURSE AND DISTANCE |        |                                                                                                                                                                                                                                                                                                                                                                      |  | ALTITUDE                                                                          |     | ADDITIONAL FLIGHT DATA: |        |                                             |                   |        |     |
|                                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
|                                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)           |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 2. _____                                                                                       |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 3. FAC: _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____                                    |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 4. MIN. ALT: _____                                                                             |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                          |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 7. GS ANGLE: _____ TCH: _____                                                                  |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| 8. MSA FROM: _____                                                                             |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     | MAG VAR: _____          |        |                                             | EPOCH YEAR: _____ |        |     |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| ALTERNATE: N A                                                                                 |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| CATEGORY =====>                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
|                                                                                                |  | DH/MDA                                                                      | VIS |                     | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                  |  | DH/MDA                                                                            | VIS |                         | DH/MDA | VIS                                         |                   | DH/MDA | VIS |
|                                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
|                                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
|                                                                                                |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| NOTES:                                                                                         |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| PROCEDURE CANCELED EFFECTIVE 21 JULY 2016                                                      |  |                                                                             |     |                     |        |                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |     |                         |        |                                             |                   |        |     |
| CITY AND STATE<br>HAILEY, ID                                                                   |  | ELEVATION: 5318 TDZE: 5290<br>AIRPORT NAME:<br>FRIEDMAN MEMORIAL            |     |                     |        | FACILITY<br>IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                      |  | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) W RWY 31, AMDT 2, 11/23/2006 |     |                         |        | SUP: 4<br>AMDT: CHECKED<br>DATED 10/27/2005 |                   |        |     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|--------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------|----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|-----|---------|--|---|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |        |                           | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |        |     |         |  |   |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | TO                         |         |        | COURSE AND DISTANCE       |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       | ALTITUDE |                | LP: CAKIR<br>LNAV: CAKIR<br><br>(DO NOT EXCEED 185 KIAS UNTIL WOGAR) CLIMB TO 10500 DIRECT JOTBO AND ON TRACK 230.90 TO WOGAR AND ON TRACK 146.58 TO PRESN AND HOLD. #MISSED APPROACH REQUIRES MINIMUM CLIMB OF 420 FEET PER NM TO 9500; IF UNABLE TO MEET CLIMB GRADIENT, SEE RNAV (GPS) Y RWY 31.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 010.39 INBOUND.<br>CHART FAS OBST: 6298 GRD 433004N/1141623W<br>FAS OBST: 6120 AAO 432623N/1141337W<br>WAAS CHANNEL # 77639<br>REFERENCE PATH ID: W31A<br>GUNKS TO RW31: 3.50/55.<br>FICTITIOUS THRESHOLD POINT (CFFSX) DO NOT CHART.<br>CHART ARRIVAL HOLDING AT MENIN: HOLD SE, LT, 295.52 INBOUND, 9000.<br>FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.<br>CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 8.40 DEGREES.<br>LTP HAE: 1590.8 M |            |        |     |         |  |   |  |
| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | OREYE (FB)                 |         |        | 295.52 / 5.51             |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       | 8600     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | PRESN (FB)                 |         |        | 091.67 / 11.77            |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       | 10400    |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| OREYE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | JUNOL (FB)                 |         |        | 308.80 / 11.70            |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       | 8600     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| PRESN (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | JUNOL (FB)                 |         |        | 024.49 / 9.96             |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       | 8600     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| JUNOL (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | GUNKS (FB)                 |         |        | 320.27 / 5.00             |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       | 7400     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| GUNKS (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | CAKIR (MAP) (FO)           |         |        | 320.23 / 5.12             |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                | MAG VAR: 13E EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |        |     |         |  |   |  |
| CAKIR (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | 5720 MSL                   |         |        | 320.23                    |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT JUNOL<br>3. FAC: 320.23 FAF: GUNKS DIST FAF TO MAP: 5.12 THLD: 5.60<br>4. MIN. ALT: JUNOL 8600, GUNKS 7400<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR<br>8. MSA FROM: CAKIR 13000 |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          | ALTERNATE: N A |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  | @ |  |
| CATEGORY ==>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | A                          |         |        | B                         |                                                                                                                                                                                                                                                                                                                                                                      |                                        | C     |          |                | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |        | E   |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DH/MDA | VIS                        | HAT/HAA | DH/MDA | VIS                       | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA                                 | VIS   | HAT/HAA  | DH/MDA         | VIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HAT/HAA    | DH/MDA | VIS | HAT/HAA |  |   |  |
| LP MDA#                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6180   | 1 1/4                      | 891     | 6180   | 1 1/4                     | 891                                                                                                                                                                                                                                                                                                                                                                  | 6180                                   | 2 1/2 | 891      | 6180           | 2 1/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 891        |        |     |         |  |   |  |
| LNAV MDA#                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6920   | 1 1/4                      | 1631    | 6920   | 1 1/2                     | 1631                                                                                                                                                                                                                                                                                                                                                                 | 6920                                   | 3     | 1631     | 6920           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1631       |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA. @ CAT A, B 1700-2, CAT C, D 1700-3<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SOLDE ON V444 NORTHWEST BOUND V101 SOUTHWEST BOUND AND ARRIVALS AT PRESN ON V500 WESTBOUND.<br>CHART PLANVIEW NOTE: NOPT FOR ARRIVALS AT MENIN ON V500 WESTBOUND, V231 NORTHBOUND.<br>CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.                                                                       |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      |                                        |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |     |         |  |   |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | ELEVATION: 5320 TDZE: 5289 |         |        | FACILITY IDENTIFIER: RNAV |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SUP:       |        |     |         |  |   |  |
| HAILEY, ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | AIRPORT NAME:              |         |        | FRIEDMAN MEMORIAL         |                                                                                                                                                                                                                                                                                                                                                                      | RNAV (GPS) X RWY 31, ORIG              |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AMDT: NONE |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                            |         |        |                           |                                                                                                                                                                                                                                                                                                                                                                      | 21 JULY 2016                           |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DATED:     |        |     |         |  |   |  |

 QUALITY  
4  
CHECKED



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

| FROM     | TO         | COURSE AND DISTANCE | ALTITUDE |
|----------|------------|---------------------|----------|
| 5720 MSL | JOTBO (FB) |                     |          |
| JOTBO    | WOGAR (FB) | 230.90 / 6.62       |          |
| WOGAR    | PRESN (FO) | 146.58 / 20.71      | 10500    |

CITY AND STATE  
HAILEY, ID

ELEVATION: 5320 TDZE: 5289  
AIRPORT NAME:  
FRIEDMAN MEMORIAL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) X RWY 31, ORIG  
21 JULY 2016

SUP: 4  
AMDT: NONE  
DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSUN          |
| RUNWAY                                   | RW31          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | X             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W31A          |
| LTP/FTP LATITUDE                         | 432945.1120N  |
| LTP/FTP LONGITUDE                        | 1141709.1770W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +15908        |
| FPAP LATITUDE                            | 433104.6435N  |
| FPAP LONGITUDE                           | 1141804.4080W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00055.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.50         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 0.0           |

**CRC REMAINDER**

2A800E73

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K1     |
| LTP ORTHOMETRIC HEIGHT  | +16038 |
| FPAP ORTHOMETRIC HEIGHT | +16038 |

 QUALITY  
4

CITY AND STATE

HAILEY, ID

ELEVATION: 5320

TDZE: 5289

AIRPORT NAME:

FRIEDMAN MEMORIAL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) X RWY 31, ORIG

21 JULY 2016

SUP:

CHECKED

AMDT:

NONE

DATED:

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                  |                                                                                                                              |            |            |       |             |                                                                            |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |  |        |   |  |     |       |    |    |     |       |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KSUN</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>MENIN</td><td>010</td><td>MENIN</td><td>IF</td><td>FB</td><td></td><td>295.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 09000</td><td></td><td>E H</td></tr> <tr><td>MENIN</td><td>020</td><td>OREYE</td><td>TF</td><td>FB</td><td>2.0</td><td>295.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>E A</td></tr> <tr><td>MENIN</td><td>030</td><td>JUNOL</td><td>TF</td><td>FB</td><td>1.0</td><td>308.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>EE B</td></tr> <tr><td>SOLDE</td><td>010</td><td>SOLDE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td>SOLDE</td><td>020</td><td>PRESN</td><td>TF</td><td>FB</td><td>2.0</td><td>091.7</td><td></td><td></td><td></td><td></td><td></td><td>AA 10400</td><td></td><td>E A</td></tr> <tr><td>SOLDE</td><td>030</td><td>JUNOL</td><td>TF</td><td>FB</td><td>1.0</td><td>024.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>JUNOL</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>GUNKS</td><td>TF</td><td>FB</td><td>1.0</td><td>320.3</td><td></td><td></td><td></td><td>CAKIR</td><td></td><td>AA 07400</td><td></td><td>E F</td></tr> <tr><td></td><td>030</td><td>CAKIR</td><td>TF</td><td>FO</td><td>0.3</td><td>320.2</td><td></td><td>3.50</td><td></td><td></td><td></td><td>AT 05501</td><td></td><td>EY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>320.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 05720</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>JOTBO</td><td>DF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td></td><td>060</td><td>WOGAR</td><td>TF</td><td>FB</td><td>1.0</td><td>230.9</td><td></td><td></td><td></td><td></td><td></td><td></td><td>AB 185</td><td>E</td></tr> <tr><td></td><td>070</td><td>PRESN</td><td>TF</td><td>FO</td><td>1.0</td><td>146.6</td><td></td><td></td><td></td><td></td><td></td><td>AA 10500</td><td></td><td>EY</td></tr> <tr><td></td><td>080</td><td>PRESN</td><td>HM</td><td>FO</td><td></td><td>010.4</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 10500</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-top: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WPT<br>SEQ            | WPT<br>NAME            | LEG<br>TYPE            | FB/FO            | RNP                                                                                                                          | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX                                                              | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |  |        |   |  |     |       |    |   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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 010                   | MENIN                  | IF                     | FB               |                                                                                                                              | 295.5      |            |       |             |                                                                            |                | AA 09000                                                                                                                                                                                                                                                                                                                                                             |                                       | E H                        |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |  |        |   |  |     |       |    |   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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FB               | 2.0                                                                                                                          | 295.5      |            |       |             |                                                                            |                | AA 08600                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |  |        |   |  |     |       |    |   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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FB               | 1.0                                                                                                                          | 308.8      |            |       |             |                                                                            |                | AA 08600                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FB               |                                                                                                                              |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FB               | 2.0                                                                                                                          | 091.7      |            |       |             |                                                                            |                | AA 10400                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FB               | 1.0                                                                                                                          | 024.5      |            |       |             |                                                                            |                | AA 08600                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| FB               |                                                                                                                              |            |            |       |             |                                                                            |                | AA 08600                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| FB               | 1.0                                                                                                                          | 320.3      |            |       |             | CAKIR                                                                      |                | AA 07400                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| FO               | 0.3                                                                                                                          | 320.2      |            | 3.50  |             |                                                                            |                | AT 05501                                                                                                                                                                                                                                                                                                                                                             |                                       | EY M                       |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| FB               |                                                                                                                              | 320.2      |            |       |             |                                                                            |                | AA 05720                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| GUNKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| JOTBO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| JUNOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                  |                                                                                                                              |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| OREYE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                  |                                                                                                                              |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| WOGAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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             |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |  |        |   |  |     |       |    |   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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |                                                                                                                              |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| RW31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 55               |                                                                                                                              |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                                                                                            |            |             |             |       |     |            |            |       |             |               |                |                       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| CITY AND STATE<br><div style="text-align: center;">HAILEY, ID</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                  | ELEVATION: <b>5320</b> <b>TDZE: 5289</b><br>AIRPORT NAME:<br><div style="text-align: center;"><b>FRIEDMAN MEMORIAL</b></div> |            |            |       |             | FACILITY IDENTIFIER:<br><div style="text-align: center;"><b>RNAV</b></div> |                | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>RNAV (GPS) X RWY 31, ORIG</b><br/>21 JULY 2016</div>                                                                                                                                                                                                                               |                                       |                            | SUP: <div style="text-align: center;"><b>4</b></div><br>AMDT: <div style="text-align: center;"><b>NONE</b></div><br>DATED: |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |  |  |   |  |     |       |    |    |     |       |  |  |  |  |  |  |        |   |  |     |       |    |   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U.S. DEPARTMENT OF TRANSPORTATION --  
FEDERAL AVIATION ADMINISTRATION -- FLIGHT STANDARDS SERVICE  
SPECIAL INSTRUMENT APPROACH PROCEDURE -- FLIGHT STANDARDS SERVICE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

When the instrument approach procedure of the above type is conducted at the below named airport, it must be conducted in accordance with a charted instrument approach procedure prodcated on the specifications contained herein and as specified on accompanying FAA 8260-7B (as amended). Minimum altitudes must correspond with those established for en route operation in the particular area or as set forth below. The information on this form is considered public and subject to disclosure under the Freedom of Information Act (FOIA).

## SPECIFICATION - NOT FOR COCKPIT USE

| TERMINAL ROUTES                                                                          |    |                                                                  |          | MISSED APPROACH              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
|------------------------------------------------------------------------------------------|----|------------------------------------------------------------------|----------|------------------------------|--|-----------------------------------------------------------------------|--|--------|--|--------|--|---------|--|-------------------|--|
| FROM                                                                                     | TO | COURSE AND DISTANCE                                              | ALTITUDE | MAP:                         |  |                                                                       |  |        |  |        |  |         |  |                   |  |
|                                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)          |    |                                                                  |          | ADDITIONAL FLIGHT DATA:      |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 2. ____                                                                                  |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 3. FAC: ____ FAF: ____ DIST FAF TO MAP: ____ THLD: ____                                  |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 4. MIN. ALT: ____                                                                        |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____ |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____                         |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 7. GS ANGLE: ____ TCH: ____                                                              |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| 8. MSA FROM: ____                                                                        |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| MAG VAR: ____ EPOCH YEAR: ____                                                           |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| TAKEOFF: SEE FORM 8260-15A FOR THIS AIRPORT                                              |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| ALTERNATE: N A                                                                           |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| CATEGORY =====>                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| DH/MDA                                                                                   |    | VIS                                                              |          | DH/MDA                       |  | VIS                                                                   |  | DH/MDA |  | VIS    |  | DH/MDA  |  | VIS               |  |
|                                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
|                                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
|                                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
|                                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
|                                                                                          |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| NOTES:                                                                                   |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| PROCEDURE CANCELED EFFECTIVE 21 JULY 2016                                                |    |                                                                  |          |                              |  |                                                                       |  |        |  |        |  |         |  |                   |  |
| CITY AND STATE<br>HAILEY, ID                                                             |    | ELEVATION: 5318 TDZE: 5290<br>AIRPORT NAME:<br>FRIEDMAN MEMORIAL |          | FACILITY IDENTIFIER:<br>RNAV |  | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) X RWY 31, AMDT 1 |  |        |  | SUP: 4 |  | AMDT: 4 |  | DATED: 10/27/2005 |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|--------|------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|--------|--------------------------------------------------------------------------------------------------------------------------------------------|---------|--|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                  |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |        |                                                                                                                                            |         |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | TO               |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |       |         |        | ALTITUDE                     |         | LP: <b>CAKIR</b><br>LNAV: <b>CAKIR</b><br><br>(DO NOT EXCEED 185 KIAS UNTIL PRESN) CLIMBING LEFT TURN TO 8700 DIRECT PRESN AND HOLD. #MISSED APPROACH REQUIRES MINIMUM CLIMB OF 410 FT PER NM TO 7600.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 010.39 INBOUND.<br>CHART FAS OBST: 6298 GRD 433004N/1141623W<br>FAS OBST: 6120 AAO 432623N/1141337W<br>WAAS CHANNEL # 62939<br>REFERENCE PATH ID: W31B<br>MUCID TO RW31: 3.50/55.<br>CHART CIRCLING ICON.<br>FICTITIOUS THRESHOLD POINT (CFFSX) DO NOT CHART.<br>CHART ARRIVAL HOLDING AT MENIN: HOLD SE, LT, 295.52 INBOUND, 9000.<br>5960 AAO 432406N/1141157W.<br>FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.<br>CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 8.40 DEGREES.<br>LTP HAE: 1590.8 M |     |         |        |                                                                                                                                            |         |  |  |
| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | OREYE (FB)       |         | 295.52 / 5.51                                                                                                                                                                                                                                                                                                                                                        |       |         |        | 8600                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | PRESN (FB)       |         | 091.67 / 11.77                                                                                                                                                                                                                                                                                                                                                       |       |         |        | 10400                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| OREYE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | JUNOL (FB)       |         | 308.80 / 11.70                                                                                                                                                                                                                                                                                                                                                       |       |         |        | 8600                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| PRESN (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | JUNOL (FB)       |         | 024.49 / 9.96                                                                                                                                                                                                                                                                                                                                                        |       |         |        | 8600                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| JUNOL (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | MUCID (FB)       |         | 320.27 / 3.39                                                                                                                                                                                                                                                                                                                                                        |       |         |        | 8000                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| MUCID (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | CAKIR (MAP) (FO) |         | 320.24 / 6.73                                                                                                                                                                                                                                                                                                                                                        |       |         |        | 8700                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| CAKIR (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 5720 MSL         |         | 320.24                                                                                                                                                                                                                                                                                                                                                               |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| 5720 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | PRESN (FO)       |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT JUNOL<br>3. FAC: <u>320.24</u> FAF: <u>MUCID</u> DIST FAF TO MAP: <u>6.73</u> THLD: <u>7.22</u><br>4. MIN. ALT: <b>JUNOL 8600, MUCID 8000</b><br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: _____ TCH: <b>34:1 IS NOT CLEAR</b><br>8. MSA FROM: <b>CAKIR 13000</b> |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         | MAG VAR: <b>13E</b> EPOCH YEAR: <b>2020</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |         |        |                                                                                                                                            |         |  |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |         |        |                                                                                                                                            |         |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | A                |         |                                                                                                                                                                                                                                                                                                                                                                      | B     |         |        | C                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | D   |         |        | E                                                                                                                                          |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS              | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA | DH/MDA | VIS                          | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VIS | HAT/HAA | DH/MDA | VIS                                                                                                                                        | HAT/HAA |  |  |
| LP MDA#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6900   | 1 1/4            | 1611    | 6900                                                                                                                                                                                                                                                                                                                                                                 | 1 1/2 | 1611    | 6900   | 3                            | 1611    | 6900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 1611    |        |                                                                                                                                            |         |  |  |
| LP MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7220   | 1 1/4            | 1931    | 7220                                                                                                                                                                                                                                                                                                                                                                 | 1 1/2 | 1931    | 7220   | 3                            | 1931    | 7220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 1931    |        |                                                                                                                                            |         |  |  |
| LNAV MDA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7100   | 1 1/4            | 1811    | 7100                                                                                                                                                                                                                                                                                                                                                                 | 1 1/2 | 1811    | 7100   | 3                            | 1811    | 7100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 1811    |        |                                                                                                                                            |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7340   | 1 1/4            | 2051    | 7340                                                                                                                                                                                                                                                                                                                                                                 | 1 1/2 | 2051    | 7340   | 3                            | 2051    | 7340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 2051    |        |                                                                                                                                            |         |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7340   | 1 1/4            | 2020    | 7360                                                                                                                                                                                                                                                                                                                                                                 | 1 1/2 | 2040    | 7580   | 3                            | 2260    | 7940                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 2620    |        |                                                                                                                                            |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| NOTES:<br>CHART NOTE: CIRCLING NA NE OF RWY 13-31. <span style="float: right;">@CAT A, B, 2100-2, CAT C 2300-3, CAT D 2700-3</span><br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SOLDE ON V444 NORTHWEST BOUND, V101 SOUTHWEST<br>(CONTINUED ON PAGE 2)                                                                                                                                          |        |                  |         |                                                                                                                                                                                                                                                                                                                                                                      |       |         |        |                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |         |        |                                                                                                                                            |         |  |  |
| CITY AND STATE<br><br>HAILEY, ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                  |         | ELEVATION: 5320      TDZE: 5289<br>AIRPORT NAME:<br><br>FRIEDMAN MEMORIAL                                                                                                                                                                                                                                                                                            |       |         |        | FACILITY IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) Y RWY 31, ORIG<br><br>21 JULY 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |         |        | SUP: <span style="color: green; font-weight: bold;">4</span><br>AMDT: <span style="color: green; font-weight: bold;">NONE</span><br>DATED: |         |  |  |

RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):  
BOUND AND ARRIVALS AT PRESN ON V500 WESTBOUND.  
CHART PLANVIEW NOTE: NOPT FOR ARRIVALS AT MENIN ON V500 WESTBOUND, V231 NORTHBOUND.

|                                  |                                                           |            |                                  |                                                                                             |            |
|----------------------------------|-----------------------------------------------------------|------------|----------------------------------|---------------------------------------------------------------------------------------------|------------|
| CITY AND STATE<br><br>HAILEY, ID | ELEVATION: 5320<br>AIRPORT NAME:<br><br>FRIEDMAN MEMORIAL | TDZE: 5289 | FACILITY IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) Y RWY 31, ORIG<br><br>21 JULY 2016 | SUP: 4     |
|                                  |                                                           |            |                                  |                                                                                             | AMDT: NONE |
|                                  |                                                           |            |                                  |                                                                                             | DATED:     |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KSUN          |
| RUNWAY                                   | RW31          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Y             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W31B          |
| LTP/FTP LATITUDE                         | 432945.1120N  |
| LTP/FTP LONGITUDE                        | 1141709.1770W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +15908        |
| FPAP LATITUDE                            | 433104.6435N  |
| FPAP LONGITUDE                           | 1141804.4080W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00055.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.50         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 0.0           |
| <br><u>CRC REMAINDER</u>                 | <br>379F8296  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K1     |
| LTP ORTHOMETRIC HEIGHT  | +16038 |
| FPAP ORTHOMETRIC HEIGHT | +16038 |

CITY AND STATE

HAILEY, ID

ELEVATION: 5320

TDZE: 5289

AIRPORT NAME:

FRIEDMAN MEMORIAL

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 31, ORIG

21 JULY 2016

SUP:

4

AMDT:

NONE

DATED:

QUALITY  
4  
CHECKED

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                       |                        |                                     |     |                                                                                                |            |                                              |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |       |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |   |  |  |          |        |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KSUN</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>MENIN</td><td>010</td><td>MENIN</td><td>IF</td><td>FB</td><td></td><td>295.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 09000</td><td></td><td>E H</td></tr> <tr><td>MENIN</td><td>020</td><td>OREYE</td><td>TF</td><td>FB</td><td>2.0</td><td>295.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>E A</td></tr> <tr><td>MENIN</td><td>030</td><td>JUNOL</td><td>TF</td><td>FB</td><td>1.0</td><td>308.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>EE B</td></tr> <tr><td>SOLDE</td><td>010</td><td>SOLDE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td></tr> <tr><td>SOLDE</td><td>020</td><td>PRESN</td><td>TF</td><td>FB</td><td>2.0</td><td>091.7</td><td></td><td></td><td></td><td></td><td></td><td>AA 10400</td><td></td><td>E A</td></tr> <tr><td>SOLDE</td><td>030</td><td>JUNOL</td><td>TF</td><td>FB</td><td>1.0</td><td>024.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>JUNOL</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 08600</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>MUCID</td><td>TF</td><td>FB</td><td>1.0</td><td>320.3</td><td></td><td></td><td></td><td>CAKIR</td><td></td><td>AA 08000</td><td></td><td>E F</td></tr> <tr><td></td><td>030</td><td>CAKIR</td><td>TF</td><td>FO</td><td>0.3</td><td>320.2</td><td></td><td>3.50</td><td></td><td></td><td></td><td>AT 05501</td><td></td><td>EY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>320.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 05720</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>PRESN</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td>L</td><td></td><td></td><td>AA 08700</td><td>AB 185</td><td>EY</td></tr> <tr><td></td><td>060</td><td>PRESN</td><td>HM</td><td>FO</td><td></td><td>010.4</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 08700</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-top: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                     | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                     |                                       | E H                        |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                     |                                       | E A                        |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                     |                                       | EE B                       |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| MENIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| PRESN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| SOLDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| CAKIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N432918.95            | W1141651.02                                                                           |                        |                                     |     |                                                                                                |            |                                              |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| JUNOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                     |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| MUCID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                     |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| OREYE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                     |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                                | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                    |     |                                                                                                |            |                                              |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| RW31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N432943.16            | W1141714.48                                                                           | 05262                  | 55                                  |     |                                                                                                |            |                                              |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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| CITY AND STATE<br><b>HAILEY, ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | ELEVATION: <b>5320</b> <b>TDZE: 5289</b><br>AIRPORT NAME:<br><b>FRIEDMAN MEMORIAL</b> |                        | FACILITY IDENTIFIER:<br><b>RNAV</b> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) Y RWY 31, ORIG</b><br>21 JULY 2016 |            | SUP: <b>4</b><br>AMDT: <b>NONE</b><br>DATED: |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |       |    |    |     |       |  |  |  |  |  |          |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     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**RNAV (RNP) - STANDARD,  
INSTRUMENT APPROACH PROCEDURE,  
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

| TERMINAL ROUTES                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    | MISSED APPROACH                  |     |  |        |     |                                        |  |  |
|------------------------------------------------------------------------------------------------|--------|-----|------------------------------------------------------------------|---------------------|-----|--|---------------------------------|----------|------------------------------------------------------------------------------------|----------------------------------|-----|--|--------|-----|----------------------------------------|--|--|
| FROM                                                                                           |        | TO  |                                                                  | COURSE AND DISTANCE |     |  |                                 | ALTITUDE |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    | ADDITIONAL FLIGHT DATA:          |     |  |        |     |                                        |  |  |
| 1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    | MAG VAR: _____ EPOCH YEAR: _____ |     |  |        |     |                                        |  |  |
| 2. _____                                                                                       |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| 3. FAC: _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____                                    |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| 4. MIN. ALT: _____                                                                             |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                          |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| 7. GS ANGLE: _____ TCH: _____                                                                  |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| 8. MSA FROM: _____                                                                             |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    | ALTERNATE: N A                   |     |  |        |     |                                        |  |  |
| CATEGORY =====>                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                | DH/MDA | VIS |                                                                  | DH/MDA              | VIS |  | DH/MDA                          | VIS      |                                                                                    | DH/MDA                           | VIS |  | DH/MDA | VIS |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
|                                                                                                |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| NOTES:                                                                                         |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| PROCEDURE CANCELED EFFECTIVE 21 JULY 2016                                                      |        |     |                                                                  |                     |     |  |                                 |          |                                                                                    |                                  |     |  |        |     |                                        |  |  |
| CITY AND STATE<br>HAILEY, ID                                                                   |        |     | ELEVATION: 5320 TDZE: 5294<br>AIRPORT NAME:<br>FRIEDMAN MEMORIAL |                     |     |  | FACILITY<br>IDENTIFIER:<br>RNAV |          | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (RNP) Y RWY 31, AMDT 1B, 11/17/2011 |                                  |     |  |        |     | SUP: 4<br>AMDT: 9A<br>DATED 03/11/2010 |  |  |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport           | Effective Date | Amdt. No. |
|-------------|-------------------|----------------|-----------|
| HAILEY, ID  | FRIEDMAN MEMORIAL | 21 JULY 2016   | 3         |

**TAKEOFF MINIMUMS:**

RWY 31, NA – OBSTACLES

RWY 13, 900-2 ½ WITH MINIMUM CLIMB OF 390 FT PER NM TO 7000, OR STANDARD WITH MINIMUM CLIMB OF 605 FT PER NM TO 7000, OR 3600-3 FOR CLIMB IN VISUAL CONDITIONS.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 13, CLIMB HEADING 146.77 AND ON 162.00 COURSE TO HLE NDB.

**VISUAL CLIMB OVER AIRPORT:**

OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS FRIEDMAN MEMORIAL AIRPORT AT OR ABOVE 8800 THEN ON 155.00 COURSE TO HLE NDB.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 13, FENCE ABEAM DER, 398 FT RIGHT OF CENTERLINE, 6 FT AGL/5262 FT MSL. BUSHES BEGINNING 24 FT FROM DER, 447 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/5275 FT MSL. VEHICLE ON ROAD 200 FT FROM DER, 373 FT LEFT OF CENTERLINE, UP TO 17 FT AGL/5279 FT MSL. VEHICLE ON ROAD, MULTIPLE POLES AND TREES BEGINNING 234 FT FROM DER, 373 FT LEFT OF CENTERLINE, UP TO 5309 FT MSL. TREE 765 FT FROM DER, 698 FT RIGHT OF CENTERLINE, 87 FT AGL/5341 FT MSL. TREES BEGINNING 1006 FT FROM DER, 595 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/5349 FT MSL. TREES BEGINNING 1233 FT FROM DER, 459 FT RIGHT OF CENTERLINE, UP TO 93 FT AGL/5344 FT MSL. TREES BEGINNING 1408 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 5325 FT MSL. TREES BEGINNING 1656 FT FROM DER, 116 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/5339 FT MSL. TRANSMISSION TOWER 2079 FT FROM DER, 509 FT LEFT OF CENTERLINE, 66 FT AGL/5317 FT MSL. TREES 2104 FT FROM DER, 77 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/5318 FT MSL. TREES 2351 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/5334 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 13: 6139 FT MSL TREE 432745.98N/1141700.96W (605 CLIMB GRADIENT)

RWY 13: 5939 FT MSL TREE 432737.60N/1141653.73W (VISIBILITY)

RWY 13: 6520 FT MSL AAO 432626.50N/1141328.30W (390 CLIMB GRADIENT)

RWY 13 (VCOA): 8550 FT MSL AAO 433154.85N/1141330.92W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 13: 8550 FT MSL AAO 433154.85N/1141330.92W

QUALITY  
3  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State | Airport           | Effective Date | Amdt. No. |
|-------------|-------------------|----------------|-----------|
| HAILEY, ID  | FRIEDMAN MEMORIAL | 21 JULY 2016   | 3         |

**REMARKS:**

AIRPORT MAGVAR CHANGED FROM 16E/1995 TO 13E/2020

**FLIGHT INSPECTED BY:**

*Digitally signed by*

**REQUIRED EFFECTIVE DATE:**

CHARLES D CUNNINGHAM      FICO      **ALLAN WILL**      05/17/2016  
May 24, 2016

ROUTINE

**DEVELOPED BY:** *Digitally signed by*

RALPH DUMAR      **RALPH DUMAR**      AJV-5433      03/08/2016  
Apr 15, 2016

**APPROVED BY:**

*Digitally signed by*

LONNIE EVERHART      AJV-5430      **ALLAN WILL**  
May 24, 2016

**COORDINATED WITH:**

ATA, ALPA, AOPA, NBAA, ARPT MGR, SUN ATCT, ZLC ARTCC

**CHANGES:**

1. TAKEOFF MINIMUMS: CHANGED STRAIGHT CLIMB OUT FROM "900-21/2 WITH MINIMUM CLIMB OF 400 FT PER NM TO 7000, OR STANDARD WITH MINIMUM CLIMB OF 590 FT PER NM TO 7000," TO "900-2 ½ WITH MINIMUM CLIMB OF 390 FT PER NM TO 7000, OR STANDARD WITH MINIMUM CLIMB OF 605 FT PER NM TO 7000."
2. TAKEOFF MINIMUMS: DELETED "WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE."
3. DEPARTURE PROCEDURE: CHANGED COURSE 143.77 TO 146.77.
4. VCOA: ADDED "OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE."
5. UPDATED LOW CLOSE-IN OBSTACLE LIST WITH DEPARTURE OBSTACLE GROUPER.

**REASONS:**

1. PER 8260.19G WORST CASE VEGETATION APPLICATION, PER 8260.3B VOL. 4
- 2, 4. PER 8260.46E.
3. AIRPORT MAGVAR CHANGE FROM 16E/1995 TO 13E/2020.
5. PER CRITERIA MEMO DATED 11/09/2015.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|---------------------------------------------------------------|-----|------------------------------------------------------------------------|--------|------------------------------|---------|------------|-----|--------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------|--|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |         |                                                               |     | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |                  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         | TO                                                            |     |                                                                        |        | COURSE AND DISTANCE          |         |            |     | ALTITUDE                                                                       |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW09<br><br>CLIMB TO 2300 DIRECT FINED AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD E, RT, 272.44 INBOUND.<br>CHART FAS OBST: 757 BLD 394122N/0874208W<br>DISTANCE TO THLD FROM 250 HAT: 0.62 NM.<br>WAAS CHANNEL # 50439<br>REFERENCE PATH ID: W09A<br>CHART CIRCLING ICON.<br>LTP HAE: 167.2 M |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| GAULS (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         | EKOYA (FB)                                                    |     |                                                                        |        | 021.03 / 5.69                |         |            |     | 2300                                                                           |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| NEWMY (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         | EKOYA (FB)                                                    |     |                                                                        |        | 182.11 / 9.81                |         |            |     | 2300                                                                           |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| EKOYA (IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |         | COSMI (FB)                                                    |     |                                                                        |        | 092.12 / 6.76                |         |            |     | 2300                                                                           |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| COSMI (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         | CAMVO/2.50 NM TO RW09 (FB)                                    |     |                                                                        |        | 092.21 / 2.51                |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| CAMVO/2.50 NM TO RW09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         | RW09 (MAP) (FO)                                               |     |                                                                        |        | 092.21 / 2.50                |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| RW09 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |         | 904 MSL                                                       |     |                                                                        |        | 092.21                       |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| 904 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |     |         | FINED (FO)                                                    |     |                                                                        |        |                              |         |            |     | 2300                                                                           |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. PROFILE STARTS AT EKOYA<br>3. FAC: 092.21 FAF: COSMI DIST FAF TO MAP: 5.01 THLD: 5.01<br>4. MIN. ALT: EKOYA 2300, COSMI 2300, CAMVO/2.50 NM TO RW09 1500*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 2300 GS ALT AT: COSMI 2300 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR<br>8. MSA FROM: RW09 3000 |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         | MAG VAR: 4W                                                                                                                                                                                                                                                                                                                                                          |  |  |  | EPOCH YEAR: 2020 |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        | ALTERNATE: N A               |         | STANDARD @ |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | A   |         |                                                               | B   |                                                                        |        | C                            |         |            | D   |                                                                                |        | E                                                                                                                                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DH/MDA | VIS | HAT/HAA | DH/MDA                                                        | VIS | HAT/HAA                                                                | DH/MDA | VIS                          | HAT/HAA | DH/MDA     | VIS | HAT/HAA                                                                        | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                    | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 904    | 1   | 250     | 904                                                           | 1   | 250                                                                    | 904    | 1                            | 250     | 904        | 1   | 250                                                                            |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 904    | 1   | 250     | 904                                                           | 1   | 250                                                                    | 904    | 1                            | 250     | 904        | 1   | 250                                                                            |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1020   | 1   | 366     | 1020                                                          | 1   | 366                                                                    | 1020   | 1                            | 366     | 1020       | 1   | 366                                                                            |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1080   | 1   | 426     | 1120                                                          | 1   | 466                                                                    | 1120   | 1 1/2                        | 466     | 1320       | 2   | 666                                                                            |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: BARO-VNAV NA WHEN USING TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                              |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                  |  |  |  |  |  |
| CITY AND STATE<br><br>PARIS, IL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         | ELEVATION: 654 TDZE: 654<br>AIRPORT NAME:<br><br>EDGAR COUNTY |     |                                                                        |        | FACILITY IDENTIFIER:<br>RNAV |         |            |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 9, AMDT 1, 07/21/2016 |        |                                                                                                                                                                                                                                                                                                                                        |         | SUP:                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         | AMDT: ORIG                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                                |        |                                                                                                                                                                                                                                                                                                                                        |         | DATED 12/20/2007                                                                                                                                                                                                                                                                                                                                                     |  |  |  |                  |  |  |  |  |  |

QUALITY  
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                    |                                            |
| <p>NOTES, (CONT.):</p> <p>CHART PROFILE NOTE: VGSi AND RNAV GLIDE PATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).</p> <p>*LNAV ONLY</p> <p>CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.</p> <p>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING: INCREASE ALL DA TO 965 FEET AND ALL MDA 80 FEET AND VISIBILITY LNAV CAT C AND D 3/8 SM AND CIRCLING CAT D 1/2 SM.</p> <p>CHART NOTE: STRAIGHT-IN RWY 9 NA AT NIGHT, CIRCLING RWY 9, 18 NA AT NIGHT.</p> <p>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NEWMY ON V192 NORTHWEST BOUND.</p> <p>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GAULS ON V50 WESTBOUND.</p> |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    |                                            |
| CITY AND STATE<br><br>PARIS, IL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ELEVATION: 654<br>AIRPORT NAME:<br><br>EDGAR COUNTY | TDZE: 654 | FACILITY IDENTIFIER:<br><br>RNAV                                                                                                                                                                                                                                                                                                                                     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 9, AMDT 1, 07/21/2016 | SUP: <div>QUALITY<br/>10<br/>CHECKED</div> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    | AMDT: ORIG                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    | DATED: 12/20/2007                          |

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KPRG          |
| RUNWAY                                   | RW09          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W09A          |
| LTP/FTP LATITUDE                         | 394159.9060N  |
| LTP/FTP LONGITUDE                        | 0874039.4415W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01672        |
| FPAP LATITUDE                            | 394202.5690N  |
| FPAP LONGITUDE                           | 0873844.0535W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1376          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

| <u>CRC REMAINDER</u> | <u>DATA</u> |
|----------------------|-------------|
|                      | A2B8276F    |

ADDITIONAL PATH POINT RECORD INFORMATION

| <u>ICAO CODE</u>        | <u>DATA</u> |
|-------------------------|-------------|
| LTP ORTHOMETRIC HEIGHT  | +01993      |
| FPAP ORTHOMETRIC HEIGHT | +01993      |

QUALITY  
10

CHECKED

|                             |                                                 |           |                                 |                                                                                |                   |
|-----------------------------|-------------------------------------------------|-----------|---------------------------------|--------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>PARIS, IL | ELEVATION: 654<br>AIRPORT NAME:<br>EDGAR COUNTY | TDZE: 654 | FACILITY<br>IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 9, AMDT 1, 07/21/2016 | SUP:              |
|                             |                                                 |           |                                 |                                                                                | AMDT: ORIG        |
|                             |                                                 |           |                                 |                                                                                | DATED: 12/20/2007 |

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |                       |             |                        |     |                        |            |                  |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|------------|-----------------------|-------------|------------------------|-----|------------------------|------------|------------------|-------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KPRG                                                |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO                  | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE            | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| GAULS                                                               | 010        | GAULS                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| GAULS                                                               | 020        | EKOYA                 | TF          | FB                     | 1.0 | 021.0                  |            |                  |             |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| NEWMY                                                               | 010        | NEWMY                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| NEWMY                                                               | 020        | EKOYA                 | TF          | FB                     | 1.0 | 182.1                  |            |                  |             |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                     | 010        | EKOYA                 | IF          | FB                     |     |                        |            |                  |             |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                     | 020        | COSMI                 | TF          | FB                     | 1.0 | 092.1                  |            |                  |             | RW09          |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 021        | CAMVO                 | TF          | FB                     | 0.3 | 092.2                  |            | 3.00             |             |               |                | AA 01500 GS 01500                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                     | 030        | RW09                  | TF          | FO                     | 0.3 | 092.2                  |            | 3.00             |             |               |                | AT 00694                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040        |                       | CA          | FB                     |     | 092.2                  |            |                  |             |               |                | AA 00904                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050        | FINED                 | DF          | FO                     |     |                        |            |                  |             |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 060        | FINED                 | HM          | FO                     |     | 272.4                  |            |                  | R           |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          |            |                       | LATITUDE    |                        |     | LONGITUDE              |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| GAULS                                                               |            |                       | N393611.03  |                        |     | W0875803.62            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| NEWMY                                                               |            |                       | N395126.22  |                        |     | W0875619.21            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CAMVO                                                               |            |                       | N394155.36  |                        |     | W0874353.42            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| COSMI                                                               |            |                       | N394150.69  |                        |     | W0874708.60            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| EKOYA                                                               |            |                       | N394137.69  |                        |     | W0875554.07            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FINED                                                               |            |                       | N394220.17  |                        |     | W0872522.09            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              |            | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |     | THRESHOLD<br>ELEVATION |            | PROCEDURE<br>TCH |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW09                                                                |            | N394159.91            |             | W0874039.44            |     | 00654                  |            | 40               |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
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|                                    |                                      |                  |                      |                                              |                          |
|------------------------------------|--------------------------------------|------------------|----------------------|----------------------------------------------|--------------------------|
| CITY AND STATE<br><b>PARIS, IL</b> | ELEVATION: <b>654</b>                | TDZE: <b>654</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:   | SUP:                     |
|                                    | AIRPORT NAME:<br><b>EDGAR COUNTY</b> |                  | <b>RNAV</b>          | <b>RNAV (GPS) RWY 9, AMDT 1</b><br>7/21/2016 | AMDT: <b>ORIG</b>        |
|                                    |                                      |                  |                      |                                              | DATED: <b>12/20/2007</b> |

|                                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------|----------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|---------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                       |        | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            | MISSED APPROACH              |                    |         |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                     |        | TO                                                                          |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                                                                               | ALTITUDE       |       | LP: RW18<br>LNAV: RW18                                                                                                                                                                                                                                                     |                              |                    |         |        |     |         |
| JAZZY (IAF)                                                                                                                                                                                                                                                                                                                                              |        | HAVIS (NOPT) (FB)                                                           |         | 260.14 / 12.32                                                                                                                                                                                                                                                                                                                                                       |     |                                                                               | 3000           |       | CLIMB TO 3000 DIRECT ATISE AND HOLD.                                                                                                                                                                                                                                       |                              |                    |         |        |     |         |
| JAGER (IAF)                                                                                                                                                                                                                                                                                                                                              |        | HAVIS (NOPT) (FB)                                                           |         | 134.01 / 8.87                                                                                                                                                                                                                                                                                                                                                        |     |                                                                               | 3000           |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| HAVIS (IF/IAF)                                                                                                                                                                                                                                                                                                                                           |        | CAROD (FB)                                                                  |         | 182.27 / 6.16                                                                                                                                                                                                                                                                                                                                                        |     |                                                                               | 2300           |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| CAROD (FAF)                                                                                                                                                                                                                                                                                                                                              |        | RW18 (MAP) (FO)                                                             |         | 182.27 / 5.07                                                                                                                                                                                                                                                                                                                                                        |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| RW18 (MAP)                                                                                                                                                                                                                                                                                                                                               |        | 980 MSL                                                                     |         | 182.27                                                                                                                                                                                                                                                                                                                                                               |     |                                                                               |                |       | ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 002.27 INBOUND.<br>CHART FAS OBST: 727 TREE 394218N/0874013W<br>CHART FAS OBST: 742 TREE 394214N/0874004W<br>WAAS CHANNEL # 82639<br>REFERENCE PATH ID: W18A<br>CAROD TO RW18: 3.00/40.<br>CHART CIRCLING ICON.<br>LTP HAE: 164.5 M |                              |                    |         |        |     |         |
| 980 MSL                                                                                                                                                                                                                                                                                                                                                  |        | ATISE (FO)                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               | 3000           |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                     |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            | MAG VAR: 4W EPOCH YEAR: 2020 |                    |         |        |     |         |
| 2. HOLD N HAVIS, RT, 182.27 INBOUND, 3000 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                        |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 3. FAC: 182.27 FAF: CAROD DIST FAF TO MAP: 5.07 THLD: 5.07                                                                                                                                                                                                                                                                                               |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 4. MIN. ALT: HAVIS 3000, CAROD 2300                                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                           |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                    |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                                                |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| 8. MSA FROM: RW18 3000                                                                                                                                                                                                                                                                                                                                   |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                 |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               | ALTERNATE: N A |       | STANDARD @                                                                                                                                                                                                                                                                 |                              |                    |         |        |     |         |
| CATEGORY ==>                                                                                                                                                                                                                                                                                                                                             |        | A                                                                           |         | B                                                                                                                                                                                                                                                                                                                                                                    |     | C                                                                             |                | D     |                                                                                                                                                                                                                                                                            | E                            |                    |         |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                          | DH/MDA | VIS                                                                         | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                                                                       | DH/MDA         | VIS   | HAT/HAA                                                                                                                                                                                                                                                                    | DH/MDA                       | VIS                | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LP MDA                                                                                                                                                                                                                                                                                                                                                   | 980    | 1                                                                           | 326     | 980                                                                                                                                                                                                                                                                                                                                                                  | 1   | 326                                                                           | 980            | 1     | 326                                                                                                                                                                                                                                                                        | 980                          | 1                  | 326     |        |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                 | 1000   | 1                                                                           | 346     | 1000                                                                                                                                                                                                                                                                                                                                                                 | 1   | 346                                                                           | 1000           | 1     | 346                                                                                                                                                                                                                                                                        | 1000                         | 1                  | 346     |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                 | 1080   | 1                                                                           | 426     | 1120                                                                                                                                                                                                                                                                                                                                                                 | 1   | 466                                                                           | 1120           | 1 1/2 | 466                                                                                                                                                                                                                                                                        | 1320                         | 2                  | 666     |        |     |         |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TERRE HAUTE INTL-HULMAN FIELD ALTIMETER<br>(CONTINUED ON PAGE 2) |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                               |                |       |                                                                                                                                                                                                                                                                            |                              |                    |         |        |     |         |
| CITY AND STATE<br>PARIS, IL                                                                                                                                                                                                                                                                                                                              |        | ELEVATION: 654 TDZE: 654<br>AIRPORT NAME:<br>EDGAR COUNTY                   |         | FACILITY<br>IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                      |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 18, ORIG, 07/21/2016 |                |       |                                                                                                                                                                                                                                                                            |                              | SUP:<br>AMDT: NONE |         |        |     |         |

QUALITY  
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RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):  
SETTING: INCREASE ALL MDA 80 FEET AND VISIBILITY LP CAT C AND D 1/8 SM, LNAV CAT C AND D 1/4 SM  
AND CIRCLING CAT D 1/2 SM.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAZZY ON V171 SOUTHBOUND.  
CHART NOTE: STRAIGHT-IN RWY 18 NA AT NIGHT, CIRCLING RWY 9, 18 NA AT NIGHT.

|                                 |                                                     |           |                                     |                                                                                    |        |
|---------------------------------|-----------------------------------------------------|-----------|-------------------------------------|------------------------------------------------------------------------------------|--------|
| CITY AND STATE<br><br>PARIS, IL | ELEVATION: 654<br>AIRPORT NAME:<br><br>EDGAR COUNTY | TDZE: 654 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 18, ORIG, 07/21/2016 | SUP:   |
|                                 |                                                     |           |                                     |                                                                                    | AMDT:  |
|                                 |                                                     |           |                                     |                                                                                    | DATED: |

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RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0  
SBAS SERVICE PROVIDER IDENTIFIER 0  
AIRPORT IDENTIFIER KPRG  
RUNWAY RW18  
APPROACH PERFORMANCE DESIGNATOR 0  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR 0  
REFERENCE PATH IDENTIFIER (APPROACH ID) W18A  
LTP/FTP LATITUDE 394212.1860N  
LTP/FTP LONGITUDE 0874021.1185W  
LTP/FTP ELLIPSOIDAL HEIGHT +01645  
FPAP LATITUDE 394043.0535N  
FPAP LONGITUDE 0874017.6345W  
THRESHOLD CROSSING HEIGHT (TCH) 00040.0  
TCH UNITS SELECTOR (METERS OR FEET USED) F  
GLIDEPATH ANGLE (GPA) 03.00  
COURSE WIDTH AT THRESHOLD 106.75  
LENGTH OFFSET 1776  
HORIZONTAL ALERT LIMIT (HAL) 40.0  
VERTICAL ALERT LIMIT (VAL) 0.0

CRC REMAINDER

3B385B7D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5  
LTP ORTHOMETRIC HEIGHT +01967  
FPAP ORTHOMETRIC HEIGHT +01967

QUALITY  
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CITY AND STATE

PARIS, IL

ELEVATION: 654

TDZE: 654

AIRPORT NAME:

EDGAR COUNTY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, ORIG, 07/21/2016

SUP:

AMDT:

DATED:

NONE

|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |
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ARINC SUMMARY - KPRG

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| HAVIS      | 010        | HAVIS       | HF          | FO    |     | 182.3      |            |       | R           |               |                | AA 03000                           |                                       | EE A                       |
| JAGER      | 010        | JAGER       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| JAGER      | 020        | HAVIS       | TF          | FB    | 1.0 | 134.0      |            |       |             |               |                | AA 03000                           |                                       | EE B                       |
| JAZZY      | 010        | JAZZY       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| JAZZY      | 020        | HAVIS       | TF          | FB    | 1.0 | 260.1      |            |       |             |               |                | AA 03000                           |                                       | EE B                       |
|            | 010        | HAVIS       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | CAROD       | TF          | FB    | 1.0 | 182.3      |            |       |             | RW18          |                | AA 02300                           |                                       | E F                        |
|            | 030        | RW18        | TF          | FO    | 0.3 | 182.3      |            | 3.00  |             |               |                | AT 00685                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 182.3      |            |       |             |               |                | AA 00980                           |                                       | M                          |
|            | 050        | ATISE       | DF          | FO    |     |            |            |       |             |               |                | AA 03000                           |                                       | EY                         |
|            | 060        | ATISE       | HM          | FO    |     | 002.3      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| JAGER      | N395908.74 | W0874937.01 |
| JAZZY      | N395624.34 | W0872514.96 |
| ATISE      | N393028.31 | W0873953.67 |
| CAROD      | N394716.54 | W0874033.03 |
| HAVIS      | N395326.09 | W0874047.54 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW18   | N394212.19            | W0874021.12            | 00645                  | 40               |

|                                    |                                                                                |                                            |                                                                                                       |                                     |
|------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------|
| CITY AND STATE<br><b>PARIS, IL</b> | ELEVATION: <b>654</b> <b>TDZE: 654</b><br>AIRPORT NAME:<br><b>EDGAR COUNTY</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><br><b>RNAV (GPS) RWY 18, ORIG</b><br><b>07/21/2016</b> | SUP:<br>AMDT: <b>NONE</b><br>DATED: |
|                                    |                                                                                |                                            |                                                                                                       |                                     |
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|--------------------------|-----|------------------------------------------------------------------------|--------|---------------------------|---------|--------|-----|----------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------|--|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         |                          |     | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |            |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |         | TO                       |     |                                                                        |        | COURSE AND DISTANCE       |         |        |     | ALTITUDE                               |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW27<br><br>CLIMBING LEFT TURN TO 2300 DIRECT FINED AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD E, RT, 272.44 INBOUND.<br>CHART FAS OBST: 764 BLD 394124N/0873946W<br>DISTANCE TO THLD FROM 250 HAT: 0.66 NM.<br>CHART VDP AT 1.03 NM TO RW27*<br>*LNAV ONLY.<br>WAAS CHANNEL # 61239<br>REFERENCE PATH ID: W27A<br>CHART CIRCLING ICON.<br>LTP HAE: 166.2 M |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| JAZZY (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |     |         | FINED (NOPT) (FB)        |     |                                                                        |        | 184.37 / 14.06            |         |        |     | 2300                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| TTH VORTAC (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |     |         | FINED (NOPT) (FB)        |     |                                                                        |        | 332.23 / 15.29            |         |        |     | 2300                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| WAVEL (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |     |         | FINED (NOPT) (FB)        |     |                                                                        |        | 240.55 / 12.73            |         |        |     | 2300                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| FINED (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         | DECPA (FB)               |     |                                                                        |        | 272.44 / 6.01             |         |        |     | 2300                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| DECPA (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |     |         | RW27 (MAP) (FO)          |     |                                                                        |        | 272.36 / 5.05             |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| RW27 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         | 901 MSL                  |     |                                                                        |        | 272.36                    |         |        |     | 2300                                   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| 901 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |     |         | FINED (FO)               |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD E FINED, RT, 272.44 INBOUND, 2300 FT. IN LIEU OF PT (IAF)<br>3. FAC: 272.36 FAF: DECPA DIST FAF TO MAP: 5.05 THLD: 5.05<br>4. MIN. ALT: FINED 2300, DECPA 2300<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 2300 GS ALT AT: DECPA 2300 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR<br>8. MSA FROM: RW27 3000 |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | MAG VAR: 4W EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                         |  |  |  |            |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |  |  |  | STANDARD @ |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | A   |         |                          | B   |                                                                        |        | C                         |         |        | D   |                                        |        | E                                                                                                                                                                                                                                                                                                                                                                                                   |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DH/MDA | VIS | HAT/HAA | DH/MDA                   | VIS | HAT/HAA                                                                | DH/MDA | VIS                       | HAT/HAA | DH/MDA | VIS | HAT/HAA                                | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                                                 | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 901    | 1   | 250     | 901                      | 1   | 250                                                                    | 901    | 1                         | 250     | 901    | 1   | 250                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 901    | 1   | 250     | 901                      | 1   | 250                                                                    | 901    | 1                         | 250     | 901    | 1   | 250                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1020   | 1   | 369     | 1020                     | 1   | 369                                                                    | 1020   | 1                         | 369     | 1020   | 1   | 369                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1080   | 1   | 426     | 1120                     | 1   | 466                                                                    | 1120   | 1 1/2                     | 466     | 1320   | 2   | 666                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.<br>CHART NOTE: BARO-VNAV AND VDP NA WHEN USING TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                         |        |     |         |                          |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |            |  |  |  |  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         | ELEVATION: 654 TDZE: 651 |     |                                                                        |        | FACILITY IDENTIFIER: RNAV |         |        |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | SUP:                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |            |  |  |  |  |  |
| PARIS, IL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |     |         | AIRPORT NAME:            |     |                                                                        |        |                           |         |        |     | RNAV (GPS) RWY 27, AMDT 1, 07/21/2016  |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | AMDT: ORIG                                                                                                                                                                                                                                                                                                                                                           |  |  |  |            |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         | EDGAR COUNTY             |     |                                                                        |        |                           |         |        |     |                                        |        |                                                                                                                                                                                                                                                                                                                                                                                                     |         | DATED 12/20/2007                                                                                                                                                                                                                                                                                                                                                     |  |  |  |            |  |  |  |  |  |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|--------------------------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |           | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                      |        |                          |
| RNAV - STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |           |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |        |                          |
| INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |           |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |        |                          |
| <p>NOTES, (CONT.):</p> <p>CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).</p> <p>CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.</p> <p>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON TTH VORTAC AIRWAY RADIALS 254 CW 303.</p> <p>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING: INCREASE ALL DA TO 962 FEET AND ALL MDA 80 FEET AND VISIBILITY LNAV CAT C AND D 3/8 SM, AND CIRCLING CAT D 1/2 SM.</p> <p>CHART NOTE: CIRCLING RWY 9, 18 NA AT NIGHT.</p> |                |           |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |        |                          |
| CITY AND STATE<br><br>PARIS, IL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ELEVATION: 654 | TDZE: 651 | FACILITY IDENTIFIER:<br><br>RNAV                                                                                                                                                                                                                                                                                                                                      | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 27, AMDT 1, 07/21/2016 | SUP:   | QUALITY<br>10<br>CHECKED |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIRPORT NAME:  |           |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      | AMDT:  | ORIG                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EDGAR COUNTY   |           |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      | DATED: | 12/20/2007               |

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KPRG          |
| RUNWAY                                   | RW27          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W27A          |
| LTP/FTP LATITUDE                         | 394201.2445N  |
| LTP/FTP LONGITUDE                        | 0873941.8870W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01662        |
| FPAP LATITUDE                            | 394158.5715N  |
| FPAP LONGITUDE                           | 0874137.2740W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1376          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>B47726A9  |

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +01983 |
| FPAP ORTHOMETRIC HEIGHT | +01983 |

CITY AND STATE  
PARIS, IL

ELEVATION: 654 TDZE: 651  
AIRPORT NAME:  
EDGAR COUNTY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 27, AMDT 1, 07/21/2016

SUP: **10**  
AMDT: **ORIG**  
DATED: **12/20/2007**

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------------|-------|-----|------------------------|------------|-------|------------------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> |            |             |                       |       |     |                        |            |       |                        |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KPRG<br><br>ROUTES                                                                                                                                                                   |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                           | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE           | FB/FO | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE | TURN<br>DIR            | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| FINED                                                                                                                                                                                                | 010        | FINED       | HF                    | FO    |     | 272.4                  |            |       | R                      |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |
| JAZZY                                                                                                                                                                                                | 010        | JAZZY       | IF                    | FB    |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| JAZZY                                                                                                                                                                                                | 020        | FINED       | TF                    | FB    | 1.0 | 184.4                  |            |       |                        |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| TTH                                                                                                                                                                                                  | 010        | TTH         | IF                    | FB    |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V A                        |
| TTH                                                                                                                                                                                                  | 020        | FINED       | TF                    | FB    | 1.0 | 332.2                  |            |       |                        |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| WAVEL                                                                                                                                                                                                | 010        | WAVEL       | IF                    | FB    |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| WAVEL                                                                                                                                                                                                | 020        | FINED       | TF                    | FB    | 1.0 | 240.6                  |            |       |                        |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                                                                                                                                                      | 010        | FINED       | IF                    | FB    |     |                        |            |       |                        |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                                                                                                                                                      | 020        | DECPA       | TF                    | FB    | 1.0 | 272.4                  |            |       |                        | RW27          |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                                                                                                                                                      | 030        | RW27        | TF                    | FO    | 0.3 | 272.4                  |            | 3.00  |                        |               |                | AT 00691                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                                      | 040        |             | CA                    | FB    |     | 272.4                  |            |       |                        |               |                | AA 00901                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                                                                                                                                                      | 050        | FINED       | DF                    | FO    |     |                        |            |       | L                      |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                                                                                                                                                      | 060        | FINED       | HM                    | FO    |     | 272.4                  |            |       | R                      |               |                | AA 02300                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                                                                                                                                                               |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                           |            |             | LATITUDE              |       |     | LONGITUDE              |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TTH                                                                                                                                                                                                  |            |             | N392920.19            |       |     | W0871456.45            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JAZZY                                                                                                                                                                                                |            |             | N395624.34            |       |     | W0872514.96            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| WAVEL                                                                                                                                                                                                |            |             | N394922.41            |       |     | W0871136.23            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| DECPA                                                                                                                                                                                                |            |             | N394210.10            |       |     | W0873309.21            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FINED                                                                                                                                                                                                |            |             | N394220.17            |       |     | W0872522.09            |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                              |            |             |                       |       |     |                        |            |       |                        |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                               |            |             | THRESHOLD<br>LATITUDE |       |     | THRESHOLD<br>LONGITUDE |            |       | THRESHOLD<br>ELEVATION |               |                | PROCEDURE<br>TCH                                                                                                                                                                                                                                                                                                                                                     |                                       |                            |
| RW27                                                                                                                                                                                                 |            |             | N394201.24            |       |     | W0873941.89            |            |       | 00651                  |               |                | 40                                                                                                                                                                                                                                                                                                                                                                   |                                       |                            |

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|----------------------------------------|--------------------------------------|------------------|----------------------|-------------------------------------------------------|-------------------|
| CITY AND STATE<br><br><b>PARIS, IL</b> | ELEVATION: <b>654</b>                | TDZE: <b>651</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:            | SUP:              |
|                                        | AIRPORT NAME:<br><b>EDGAR COUNTY</b> |                  | <b>RNAV</b>          | <b>RNAV (GPS) RWY 27, AMDT 1</b><br><b>07/21/2016</b> | AMDT: <b>ORIG</b> |
|                                        |                                      |                  |                      | DATED: <b>12/20/2007</b>                              |                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|---------------------------------------------------------------|-----|------------------------------------------------------------------------|--------|------------------------------|---------|------------|-----|-------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |     |         |                                                               |     | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |     |         | TO                                                            |     |                                                                        |        | COURSE AND DISTANCE          |         |            |     | ALTITUDE                                                                      |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW36<br><br>CLIMB TO 3000 DIRECT HAVIS AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD N, RT, 182.27 INBOUND.<br>CHART FAS OBST: 764 BLD 394124N/0873946W<br>DISTANCE TO THLD FROM 250 HAT: 0.66 NM.<br>CHART VDP AT 1.08 NM TO RW36*<br>*LNAV ONLY.<br>WAAS CHANNEL # 78339<br>REFERENCE PATH ID: W36A<br>CHART CIRCLING ICON.<br>CHART 773 TREE 393854N/0873956W<br>LTP HAE: 167.2 M |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| DELCO (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         | ATISE (NOPT) (FB)                                             |     |                                                                        |        | 055.46 / 14.61               |         |            |     | 3000                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| KOCUJ (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         | ATISE (NOPT) (FB)                                             |     |                                                                        |        | 294.62 / 10.29               |         |            |     | 3000                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| ATISE (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |     |         | JARUD (FB)                                                    |     |                                                                        |        | 002.27 / 6.16                |         |            |     | 2300                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| JARUD (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |         | NORKE/2.60 NM TO RW36 (FB)                                    |     |                                                                        |        | 002.27 / 2.44                |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NORKE/2.60 NM TO RW36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         | RW36 (MAP) (FO)                                               |     |                                                                        |        | 002.27 / 2.60                |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| RW36 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |     |         | 904 MSL                                                       |     |                                                                        |        | 002.27                       |         |            |     | 3000                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 904 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |     |         | HAVIS (FO)                                                    |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD S ATISE, RT, 002.27 INBOUND, 3000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 002.27 FAF: JARUD DIST FAF TO MAP: 5.04 THLD: 5.04<br>4. MIN. ALT: ATISE 3000, JARUD 2300, NORKE/2.60 NM TO RW36 1500*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 2300 GS ALT AT: JARUD 2300 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR<br>8. MSA FROM: RW36 3000 |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         | MAG VAR: 4W EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        | ALTERNATE: N A               |         | STANDARD @ |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | A   |         |                                                               | B   |                                                                        |        | C                            |         |            | D   |                                                                               |        | E                                                                                                                                                                                                                                                                                                                                                                                                                         |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DH/MDA | VIS | HAT/HAA | DH/MDA                                                        | VIS | HAT/HAA                                                                | DH/MDA | VIS                          | HAT/HAA | DH/MDA     | VIS | HAT/HAA                                                                       | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                                                                       | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 904    | 1   | 250     | 904                                                           | 1   | 250                                                                    | 904    | 1                            | 250     | 904        | 1   | 250                                                                           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 904    | 1   | 250     | 904                                                           | 1   | 250                                                                    | 904    | 1                            | 250     | 904        | 1   | 250                                                                           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1020   | 1   | 366     | 1020                                                          | 1   | 366                                                                    | 1020   | 1                            | 366     | 1020       | 1   | 366                                                                           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1080   | 1   | 426     | 1120                                                          | 1   | 466                                                                    | 1120   | 1 1/2                        | 466     | 1320       | 2   | 666                                                                           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: BARO-VNAV NA WHEN USING TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F).<br>CHART NOTE: BARO-VNAV AND VDP NA WHEN USING TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                        |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CITY AND STATE<br><br>PARIS, IL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         | ELEVATION: 654 TDZE: 654<br>AIRPORT NAME:<br><br>EDGAR COUNTY |     |                                                                        |        | FACILITY IDENTIFIER:<br>RNAV |         |            |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 36, ORIG, 07/21/2016 |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         | SUP:                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         | AMDT:                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                               |     |                                                                        |        |                              |         |            |     |                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |         | NONE                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |

QUALITY  
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33                                                                                                                                                                                                                                                                                                                |                                                     |           | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                    |        |
| <p>NOTES, (CONT.):</p> <p>CHART NOTE: DME/DME RNP-0.3 NA.</p> <p>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).</p> <p>*LNAV ONLY</p> <p>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING: INCREASE ALL DA TO 965 AND MDA 80 FEET AND VISIBILITY LNAV CAT C AND D 3/8 SM, CIRCLING CAT D 1/2 SM.</p> <p>CHART NOTE: CIRCLING RWY 9, 18 NA AT NIGHT.</p> |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |
| CITY AND STATE<br><br>PARIS, IL                                                                                                                                                                                                                                                                                                                                                                                                                                | ELEVATION: 654<br>AIRPORT NAME:<br><br>EDGAR COUNTY | TDZE: 654 | FACILITY IDENTIFIER:<br><br>RNAV                                                                                                                                                                                                                                                                                                                                     | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 36, ORIG, 07/21/2016 | SUP:   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    | AMDT:  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    | DATED: |

QUALITY  
10  
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KPRG          |
| RUNWAY                                   | RW36          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W36A          |
| LTP/FTP LATITUDE                         | 394140.5775N  |
| LTP/FTP LONGITUDE                        | 0874019.8845W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01672        |
| FPAP LATITUDE                            | 394309.7095N  |
| FPAP LONGITUDE                           | 0874023.3705W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1776          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

4F3465E0

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +01993 |
| FPAP ORTHOMETRIC HEIGHT | +01993 |

QUALITY  
10  
CHECKED

CITY AND STATE

PARIS, IL

ELEVATION: 654

TDZE: 654

AIRPORT NAME:

EDGAR COUNTY

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, ORIG, 07/21/2016

SUP:

AMDT:

DATED:

NONE

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                        |                        |                  |                                                                                                                       |            |            |       |             |                                                                            |                | Bearings, headings, courses, and radials are magnetic. 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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KPRG</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>ATISE</td><td>010</td><td>ATISE</td><td>HF</td><td>FO</td><td></td><td>002.3</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 03000</td><td></td><td>EE A</td></tr> <tr><td>DELCO</td><td>010</td><td>DELCO</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>DELCO</td><td>020</td><td>ATISE</td><td>TF</td><td>FB</td><td>1.0</td><td>055.5</td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td>KOCUJ</td><td>010</td><td>KOCUJ</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>KOCUJ</td><td>020</td><td>ATISE</td><td>TF</td><td>FB</td><td>1.0</td><td>294.6</td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>ATISE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>JARUD</td><td>TF</td><td>FB</td><td>1.0</td><td>002.3</td><td></td><td></td><td></td><td>RW36</td><td></td><td>AA 02300</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>NORKE</td><td>TF</td><td>FB</td><td>0.3</td><td>002.3</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 01500 GS 01522</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW36</td><td>TF</td><td>FO</td><td>0.3</td><td>002.3</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00694</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>002.3</td><td></td><td></td><td></td><td></td><td></td><td>AA 00904</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>HAVIS</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 03000</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>HAVIS</td><td>HM</td><td>FO</td><td></td><td>182.3</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 03000</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-top: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                           | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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                                                                                                           |                                       | EE B                       |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| ATISE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| HAVIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                           |                                       |                            |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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| JARUD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                           |                                       |                            |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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| NORKE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |                                                                                                                       |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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| RW36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | N394140.58            | W0874019.88            | 00654                  | 40               |                                                                                                                       |            |            |       |             |                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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| CITY AND STATE<br><div style="text-align: center;">PARIS, IL</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                        |                        |                  | ELEVATION: <b>654</b> <b>TDZE: 654</b><br>AIRPORT NAME:<br><div style="text-align: center;"><b>EDGAR COUNTY</b></div> |            |            |       |             | FACILITY IDENTIFIER:<br><div style="text-align: center;"><b>RNAV</b></div> |                | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>RNAV (GPS) RWY 36, ORIG</b><br/><b>07/21/2016</b></div>                                                                                                                                                                                                                            |                                       |                            | SUP:<br><div style="text-align: center;"><b>NONE</b></div> |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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                                                                                                           |                                       |                            |                                                            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     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U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport      | Effective Date | Amdt. No. |
|-------------|--------------|----------------|-----------|
| PARIS, IL   | EDGAR COUNTY | 07/21/2016     | 1         |

**TAKEOFF MINIMUMS:**

RWY 9, 18, 27, 36: STANDARD.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 9, AIRFIELD LT 9 FT FROM DER, 11 FT RIGHT OF CENTERLINE, 2 FT AGL/651 FT MSL. WSK 305 FT FROM DER, 237 FT RIGHT OF CENTERLINE, 660 FT MSL. POLE 575 FT FROM DER, 385 FT RIGHT OF CENTERLINE, 673 FT MSL. POLE 640 FT FROM DER, 321 FT LEFT OF CENTERLINE, 671 FT MSL. TREES BEGINNING 877 FT FROM DER, 556 FT LEFT OF CENTERLINE, UP TO 705 FT MSL. TREE 1359 FT FROM DER, 634 FT RIGHT OF CENTERLINE, 688 FT MSL. TREE 1513 FT FROM DER, 628 FT RIGHT OF CENTERLINE, 689 FT MSL. TREE 1750 FT FROM DER, 334 FT RIGHT OF CENTERLINE, 705 FT MSL. TREES BEGINNING 1775 FT FROM DER, 126 FT RIGHT OF CENTERLINE, UP TO 707 FT MSL. TREE 2001 FT FROM DER, 322 FT RIGHT OF CENTERLINE, 710 FT MSL. TREES BEGINNING 2100 FT FROM DER, 406 FT RIGHT OF CENTERLINE, UP TO 711 FT MSL. TREE 2129 FT FROM DER, 1037 FT LEFT OF CENTERLINE, 711 FT MSL. TREE 2243 FT FROM DER, 1052 FT LEFT OF CENTERLINE, 722 FT MSL. TREE 2324 FT FROM DER, 1037 FT RIGHT OF CENTERLINE, 713 FT MSL. TREE 2429 FT FROM DER, 1151 FT RIGHT OF CENTERLINE, 714 FT MSL.

NOTE: RWY 18, TERRAIN 20 FT FROM DER, 18 FT LEFT OF CENTERLINE, 655 FT MSL. WSK 297 FT FROM DER, 235 FT RIGHT OF CENTERLINE, 668 FT MSL. VEHICLES ON ROAD BEGINNING 440 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 672 FT MSL.

NOTE: RWY 27, GRD 1 FT FROM DER, 454 FT LEFT OF CENTERLINE, 658 FT MSL. TERRAIN 23 FT FROM DER, 14 FT RIGHT OF CENTERLINE, 655 FT MSL. TERRAIN BEGINNING 42 FT FROM DER, 361 FT LEFT OF CENTERLINE, UP TO 659 FT MSL. TREE 56 FT FROM DER, 321 FT RIGHT OF CENTERLINE, 693 FT MSL. TREE 112 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 716 FT MSL. TREE 195 FT FROM DER, 372 FT RIGHT OF CENTERLINE, 79 FT AGL/727 FT MSL. TREE AND WSK BEGINNING 266 FT FROM DER, 100 FT RIGHT OF CENTERLINE, UP TO 93 FT AGL/729 FT MSL. TREES BEGINNING 1204 FT FROM DER, 621 FT LEFT OF CENTERLINE, UP TO 718 FT MSL. TREE AND POLE BEGINNING 1331 FT FROM DER, 258 FT LEFT OF CENTERLINE, UP TO 739 FT MSL.

NOTE: RWY 36, FENCE 17 FT FROM DER, 338 FT LEFT OF CENTERLINE, 4 FT AGL/648 FT MSL. WSK 301 FT FROM DER, 136 FT RIGHT OF CENTERLINE, 656 FT MSL. TREES BEGINNING 681 FT FROM DER, 47 FT RIGHT OF CENTERLINE, UP TO 720 FT MSL. TREES BEGINNING 771 FT FROM DER, 382 FT LEFT OF CENTERLINE, UP TO 705 FT MSL. TREES BEGINNING 1182 FT FROM DER, 52 FT LEFT OF CENTERLINE, UP TO 714 FT MSL.

**CONTROLLING OBSTACLES:**

QUALITY  
10  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State | Airport      | Effective Date | Amdt. No. |
|-------------|--------------|----------------|-----------|
| PARIS, IL   | EDGAR COUNTY | 07/21/2016     | 1         |

**REMARKS:**

**FLIGHT INSPECTED BY:**

PENDING

**REQUIRED EFFECTIVE DATE:**

07/21/2016

**DEVELOPED BY:**

JOHN HAZELTON

AJV-5422

*Digitally signed by*

**JOHN HAZELTON**

12/22/2015

May 31, 2016

**APPROVED BY:**

TONY LAWSON

AJV-5420

*Digitally signed by*

**JACOB POWERS**

Jun 14, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZID, HUF APP CON, AMGR

**CHANGES:**

1. ADDED RWYS 18,36.
2. UPDATED OBSTACLES NOTES.

**REASONS:**

1. PER IAP CHECKLIST.
2. NEW SURVEY DATA.

QUALITY  
10  
CHECKED

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|--------|----------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|--------|-----|---------|-------------|--|------------------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                            |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | TO                         |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |       |                      |        | ALTITUDE                               |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW17<br><br>CLIMB TO 4600 DIRECT GECKS AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD S, LT, 350.31 INBOUND.<br>CHART FAS OBST: 2261 BLDG 371554N/0991952W<br>DISTANCE TO THLD FROM 361 HAT: 0.97 NM.<br>WAAS CHANNEL # 70439<br>REFERENCE PATH ID: W17A<br>*LNAV ONLY.<br>CHART PRATT AWOS-3<br>LTP HAE: 608.3 M |     |            |        |     |         |             |  |                  |  |
| FAXUL (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | DUKRE (NOPT) (FB)          |         | 230.36 / 7.00                                                                                                                                                                                                                                                                                                                                                        |       |                      |        | 4600                                   |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| EGANE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | DUKRE (NOPT) (FB)          |         | 110.21 / 7.00                                                                                                                                                                                                                                                                                                                                                        |       |                      |        | 4600                                   |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| DUKRE (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | ATTAD (FB)                 |         | 170.29 / 7.88                                                                                                                                                                                                                                                                                                                                                        |       |                      |        | 3600                                   |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| ATTAD (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | CAGIM/2.40 NM TO RW17 (FB) |         | 170.30 / 2.23                                                                                                                                                                                                                                                                                                                                                        |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| CAGIM/2.40 NM TO RW17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | RW17 (MAP) (FO)            |         | 170.30 / 2.40                                                                                                                                                                                                                                                                                                                                                        |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| RW17 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 2447 MSL                   |         | 170.30                                                                                                                                                                                                                                                                                                                                                               |       |                      |        | 4600                                   |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| 2447 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | GECKS (FO)                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD N DUKRE, RT, 170.29 INBOUND, 4600 FT. IN LIEU OF PT (IAF)<br>3. FAC: 170.30 FAF: ATTAD DIST FAF TO MAP: 4.63 THLD: 4.63<br>4. MIN. ALT: DUKRE 4600, ATTAD 3600, CAGIM/2.40 NM TO RW17 2880*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 3600 GS ALT AT: ATTAD 3600 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR<br>8. MSA FROM: _____ |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         | MAG VAR: 5E |  | EPOCH YEAR: 2020 |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        | ALTERNATE: N A                         |         | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                   |     |            |        |     |         |             |  |                  |  |
| CATEGORY ==>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | A                          |         |                                                                                                                                                                                                                                                                                                                                                                      | B     |                      |        | C                                      |         |                                                                                                                                                                                                                                                                                                                                                       | D   |            |        | E   |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DH/MDA | VIS                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA              | DH/MDA | VIS                                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                | VIS | HAT/HAA    | DH/MDA | VIS | HAT/HAA |             |  |                  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2447   | 1 1/8                      | 361     | 2447                                                                                                                                                                                                                                                                                                                                                                 | 1 1/8 | 361                  | 2447   | 1 1/8                                  | 361     |                                                                                                                                                                                                                                                                                                                                                       | NA  |            |        |     |         |             |  |                  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2447   | 1 1/8                      | 361     | 2447                                                                                                                                                                                                                                                                                                                                                                 | 1 1/8 | 361                  | 2447   | 1 1/8                                  | 361     |                                                                                                                                                                                                                                                                                                                                                       | NA  |            |        |     |         |             |  |                  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2640   | 1                          | 554     | 2640                                                                                                                                                                                                                                                                                                                                                                 | 1     | 554                  | 2640   | 1 5/8                                  | 554     |                                                                                                                                                                                                                                                                                                                                                       | NA  |            |        |     |         |             |  |                  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2640   | 1                          | 554     | 2640                                                                                                                                                                                                                                                                                                                                                                 | 1     | 554                  | 2940   | 2 1/2                                  | 854     |                                                                                                                                                                                                                                                                                                                                                       | NA  |            |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| NOTES:<br>CHART NOTE: BARO-VNAV NA.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: USE PRATT ALTIMETER SETTING; WHEN NOT RECEIVED USE DODGE CITY ALTIMETER SETTING AND INCREASE LPV AND LNAV/VNAV DA TO 2510 FEET; INCREASE ALL MDA 80 FEET; INCREASE LPV AND LNAV/VNAV (CONTINUED ON PAGE 2)                                                                                                                                                                                                                                              |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                       |     |            |        |     |         |             |  |                  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | ELEVATION: 2086 TDZE: 2086 |         |                                                                                                                                                                                                                                                                                                                                                                      |       | FACILITY IDENTIFIER: |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                       |     | SUP:       |        |     |         |             |  |                  |  |
| COLDWATER, KS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | AIRPORT NAME:              |         |                                                                                                                                                                                                                                                                                                                                                                      |       | RNAV                 |        | RNAV (GPS) RWY 17, ORIG                |         |                                                                                                                                                                                                                                                                                                                                                       |     | AMDT: NONE |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | COMANCHE COUNTY            |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                      |        | 21 JULY 2016                           |         |                                                                                                                                                                                                                                                                                                                                                       |     | DATED:     |        |     |         |             |  |                  |  |

QUALITY  
25  
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

**ALL CATS VISIBILITY 1/4 MILE, INCREASE LNAV CAT C VISIBILITY 1/8 MILE, AND INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.**

**TAA**

|    | <u>FROM</u>             | <u>TO</u>           | <u>ALT</u> |
|----|-------------------------|---------------------|------------|
| 1. | 110/30 CW 230/30 (NOPT) | DUKRE (IF/IAF) (FB) | 4600       |
| 2. | 230/30 CW 350/30        | FAXUL (IAF) (FB)    | 4600       |
| 3. | 350/30 CW 110/30        | EGANE (IAF) (FB)    | 4600       |



CITY AND STATE  
**COLDWATER, KS**

**ELEVATION: 2086**      **TDZE: 2086**  
AIRPORT NAME:  
**COMANCHE COUNTY**

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
**RNAV (GPS) RWY 17, ORIG**  
21 JULY 2016

SUP:  
AMDT: **NONE**  
DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | 3K8           |
| RUNWAY                                   | RW17          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W17A          |
| LTP/FTP LATITUDE                         | 371344.4590N  |
| LTP/FTP LONGITUDE                        | 0991957.6145W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +06083        |
| FPAP LATITUDE                            | 371215.5485N  |
| FPAP LONGITUDE                           | 0991948.4760W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1384          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>8672F1F6  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +06358 |
| FPAP ORTHOMETRIC HEIGHT | +06358 |

QUALITY  
25  
CHECKED

|                                     |                                                         |            |                                     |                                                                                       |            |
|-------------------------------------|---------------------------------------------------------|------------|-------------------------------------|---------------------------------------------------------------------------------------|------------|
| CITY AND STATE<br><br>COLDWATER, KS | ELEVATION: 2086<br>AIRPORT NAME:<br><br>COMANCHE COUNTY | TDZE: 2086 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 17, ORIG<br>21 JULY 2016 | SUP:       |
|                                     |                                                         |            |                                     |                                                                                       | AMDT: NONE |
|                                     |                                                         |            |                                     |                                                                                       | DATED:     |



| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                     |                        |                                                                                                                   |     |                                                                                                                                      |            |       |                                                 |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |
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--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|-------|-----|-------|----|----|--|-------|--|--|---|--|--|----------|--|------|-------|-----|-------|----|----|--|--|--|--|--|--|--|--|--|-----|-------|-----|-------|----|----|-----|-------|--|--|--|--|--|----------|--|------|-------|-----|-------|----|----|--|--|--|--|--|--|--|--|--|-----|-------|-----|-------|----|----|-----|-------|--|--|--|--|--|----------|--|------|--|-----|-------|----|----|--|--|--|--|--|--|--|----------|--|-----|--|-----|-------|----|----|-----|-------|--|--|--|--|--|----------|--|-----|--|-----|-------|----|----|-----|-------|--|------|--|--|--|-------------------|--|-----|--|-----|------|----|----|-----|-------|--|------|--|--|--|----------|--|------|--|-----|--|----|----|--|-------|--|--|--|--|--|----------|--|---|--|-----|-------|----|----|--|--|--|--|--|--|--|----------|--|----|--|-----|-------|----|----|--|-------|--|--|---|--|--|----------|--|----|------------|----------|-----------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|--------|-----------------------|------------------------|------------------------|------------------|------|------------|-------------|-------|----|
| <div style="margin-bottom: 10px;">ARINC SUMMARY - 3K8</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>DUKRE</td><td>010</td><td>DUKRE</td><td>HF</td><td>FO</td><td></td><td>170.3</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 04600</td><td></td><td>EE A</td></tr> <tr><td>EGANE</td><td>010</td><td>EGANE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>EGANE</td><td>020</td><td>DUKRE</td><td>TF</td><td>FB</td><td>1.0</td><td>110.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 04600</td><td></td><td>EE B</td></tr> <tr><td>FAXUL</td><td>010</td><td>FAXUL</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>FAXUL</td><td>020</td><td>DUKRE</td><td>TF</td><td>FB</td><td>1.0</td><td>230.4</td><td></td><td></td><td></td><td></td><td></td><td>AA 04600</td><td></td><td>EE B</td></tr> <tr><td></td><td>010</td><td>DUKRE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04600</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>ATTAD</td><td>TF</td><td>FB</td><td>1.0</td><td>170.3</td><td></td><td></td><td></td><td></td><td></td><td>AA 03600</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>CAGIM</td><td>TF</td><td>FB</td><td>0.3</td><td>170.3</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 02880 GS 02890</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW17</td><td>TF</td><td>FO</td><td>0.3</td><td>170.3</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 02126</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>170.3</td><td></td><td></td><td></td><td></td><td></td><td>AA 02447</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>GECKS</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04600</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>GECKS</td><td>HM</td><td>FO</td><td></td><td>350.3</td><td></td><td></td><td>L</td><td></td><td></td><td>AA 04600</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-top: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WPT<br>SEQ            | WPT<br>NAME                                                                         | LEG<br>TYPE            | FB/FO                                                                                                             | RNP | MAG<br>CRS                                                                                                                           | REC<br>NAV | ANGLE | TURN<br>DIR                                     | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          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| DUKRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FAXUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| GECKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| RW17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| CITY AND STATE<br><b>COLDWATER, KS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | ELEVATION: <b>2086</b> <b>TDZE: 2086</b><br>AIRPORT NAME:<br><b>COMANCHE COUNTY</b> |                        | FACILITY IDENTIFIER:<br><div style="text-align: center; border: 1px solid black; padding: 2px;"><b>RNAV</b></div> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>RNAV (GPS) RWY 17, ORIG</b><br/>21 JULY 2016</div> |            |       | SUP:<br><hr/> AMDT: <b>NONE</b><br><hr/> DATED: |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State   | Airport         | Effective Date | Amdt. No. |
|---------------|-----------------|----------------|-----------|
| COLDWATER, KS | COMANCHE COUNTY | 21 JULY 2016   | ORIG      |

**TAKEOFF MINIMUMS:**

RWY 17, 35: STANDARD.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 35: CLIMB HEADING 350.30 TO 2600 BEFORE TURNING RIGHT.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 17: VEHICLES ON ROAD, BEGINNING 46 FT FROM DER, 412 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/2082 FT MSL. VEHICLE ON ROAD 625 FT FROM DER, 235 FT LEFT OF CENTERLINE, 2090 FT MSL. VEHICLE ON ROAD 635 FT FROM DER, 350 FT LEFT OF CENTERLINE, 2092 FT MSL. VEHICLE ON ROAD 641 FT FROM DER, 466 FT LEFT OF CENTERLINE, 2094 FT MSL. TREE 713 FT FROM DER, 559 FT LEFT OF CENTERLINE, 34 FT AGL/2116 FT MSL. TREES, BEGINNING 808 FT FROM DER, 506 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/2136 FT MSL.

NOTE: RWY 35: FENCE, GRD, BEGINNING 46 FT FROM DER, 124 FT RIGHT OF CENTERLINE, UP TO 7 FT AGL/2100 FT MSL. FENCE 126 FT FROM DER, 304 FT LEFT OF CENTERLINE, 10 FT AGL/2093 FT MSL.

**CONTROLLING OBSTACLES:**

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 35: 2462 FT MSL TOWER 371555.86N/0991907.28W.



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| City, State   | Airport         | Effective Date | Amdt. No. |
|---------------|-----------------|----------------|-----------|
| COLDWATER, KS | COMANCHE COUNTY | 21 JULY 2016   | ORIG      |

**REMARKS:****FLIGHT INSPECTED BY:**

JOEL LAPLANTE

FICO

Digitally signed by  
**THOMAS L KIRKPATRICK**  
May 26, 2016

05/10/2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

DAN CAIRNS

Digitally signed by  
**DAN CAIRNS**  
Apr 07, 2016

AJV-5423

26 FEB 2016

**APPROVED BY:**

GEORGE GONZALEZ

AJV-5420

Digitally signed by  
**THOMAS L KIRKPATRICK**  
May 26, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZKC, AMGR

**CHANGES:**

**REASONS:**



|                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|---------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|--------|-----|---------|--|---|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                       |        | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |         |                              | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         | MISSED APPROACH                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| FROM                                                                                                                                                                                                                                                                                                                                     |        | TO                                                                          |         | COURSE AND DISTANCE          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        | ALTITUDE |         | LNAV: ECGIG                                                                                                                                                                                                                          |                               |         |        |     |         |  |   |  |
| WEVOR (IF/IAF)                                                                                                                                                                                                                                                                                                                           |        | JEXIL (FB)                                                                  |         | 070.04 / 5.50                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        | 4000     |         | CLIMB TO 4000 THEN CLIMBING RIGHT TURN TO 5100 DIRECT WEVOR AND HOLD.                                                                                                                                                                |                               |         |        |     |         |  |   |  |
| JEXIL (FAF)                                                                                                                                                                                                                                                                                                                              |        | ECGIG (MAP) (FO)                                                            |         | 070.10 / 5.60                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| ECGIG (MAP)                                                                                                                                                                                                                                                                                                                              |        | 4000 MSL                                                                    |         | 070.10                       |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        | 4000     |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 4000 MSL                                                                                                                                                                                                                                                                                                                                 |        | WEVOR (FO)                                                                  |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        | 5100     |         | ADDITIONAL FLIGHT DATA:<br>FAS OBST: 2239 AAO 365045N/0832603W<br>CHART CIRCLING ICON.<br>JEXIL TO RW08: 3.77/40<br>FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.<br>CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 10 DEGREES. |                               |         |        |     |         |  |   |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                     |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 2. HOLD W WEVOR, RT, 070.04 INBOUND, 5100 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                        |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 3. FAC: 070.10 FAF: JEXIL DIST FAF TO MAP: 5.60 THLD: 6.08                                                                                                                                                                                                                                                                               |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 4. MIN. ALT: WEVOR 5100, JEXIL 4000                                                                                                                                                                                                                                                                                                      |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                           |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                    |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 7. GS ANGLE: _____ TCH: _____                                                                                                                                                                                                                                                                                                            |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| 8. MSA FROM: _____                                                                                                                                                                                                                                                                                                                       |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         | MAG VAR: 4W EPOCH YEAR: 1985                                                                                                                                                                                                         |                               |         |        |     |         |  |   |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                 |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         | ALTERNATE: N A                                                                                                                                                                                                                       |                               |         |        |     |         |  | @ |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                          |        | A                                                                           |         |                              | B                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |        | C        |         |                                                                                                                                                                                                                                      | D                             |         |        | E   |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                          | DH/MDA | VIS                                                                         | HAT/HAA | DH/MDA                       | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA                                                                      | DH/MDA | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                               | VIS                           | HAT/HAA | DH/MDA | VIS | HAT/HAA |  |   |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                 | 2840   | 1 1/4                                                                       | 1276    |                              | NA                                                                                                                                                                                                                                                                                                                                                                   |                                                                              |        | NA       |         |                                                                                                                                                                                                                                      | NA                            |         |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
|                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.<br>CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MIDDLESBORO ALTIMETER SETTING AND (CONTINUED ON PAGE 2) |        |                                                                             |         |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |        |          |         |                                                                                                                                                                                                                                      |                               |         |        |     |         |  |   |  |
| CITY AND STATE<br>HARLAN, KY                                                                                                                                                                                                                                                                                                             |        | ELEVATION: 1564 TDZE:<br>AIRPORT NAME:<br>TUCKER-GUTHRIE MEMORIAL           |         | FACILITY IDENTIFIER:<br>RNAV |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS)-A, ORIG<br>21 JULY 2016 |        |          |         |                                                                                                                                                                                                                                      | SUP: 4<br>AMDT: NONE<br>DATED |         |        |     |         |  |   |  |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):  
INCREASE ALL MDA 120 FEET.

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART NOTE: CIRCLING NA N OF RWY 8-26.

| TAA | FROM                    | TO                  | ALT  |
|-----|-------------------------|---------------------|------|
| 1.  | 340/30 CW 160/30 (NOPT) | 340/4 CW 160/4      | 5700 |
|     | 340/4 CW 160/4          | WEVOR (IF/IAF) (FB) | 5100 |
| 2.  | 160/30 CW 340/30        | 160/4 CW 340/4      | 6200 |
|     | 160/4 CW 340/4          | WEVOR (IF/IAF) (FB) | 5400 |

CITY AND STATE  
HARLAN, KY

ELEVATION: 1564 TDZE:  
AIRPORT NAME:  
TUCKER-GUTHRIE MEMORIAL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS)-A, ORIG  
21 JULY 2016

SUP:  
AMDT: NONE  
DATED:

QUALITY  
18  
CHECKED

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |             |             |       |                       |            |            |       |             |                        |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |                        |  |  |  |  |                  |
|---------------------------------------------------------------------|------------|-------------|-------------|-------|-----------------------|------------|------------|-------|-------------|------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|------------------------|--|--|--|--|------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| ARINC SUMMARY - I35                                                 |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| ROUTES                                                              |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP                   | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX          | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |                        |  |  |  |  |                  |
| WEVOR                                                               | 010        | WEVOR       | HF          | FO    |                       | 070.0      |            |       | R           |                        |                | AA 05100                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |                        |  |  |  |  |                  |
|                                                                     | 010        | WEVOR       | IF          | FB    |                       |            |            |       |             |                        |                | AA 05100                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |                        |  |  |  |  |                  |
|                                                                     | 020        | JEXIL       | TF          | FB    | 1.0                   | 070.0      |            |       |             |                        |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |                        |  |  |  |  |                  |
|                                                                     | 030        | ECGIG       | TF          | FO    | 0.3                   | 070.1      |            | 3.77  |             |                        |                | AT 01762                                                                                                                                                                                                                                                                                                                                                             |                                       | EY M                       |                        |  |  |  |  |                  |
|                                                                     | 040        |             | CA          | FB    |                       | 070.1      |            |       |             |                        |                | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |                        |  |  |  |  |                  |
|                                                                     | 050        | WEVOR       | DF          | FO    |                       |            |            |       | R           |                        |                | AA 05100                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |                        |  |  |  |  |                  |
|                                                                     | 060        | WEVOR       | HM          | FO    |                       | 070.0      |            |       | R           |                        |                | AA 05100                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |                        |  |  |  |  |                  |
| POINTS                                                              |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| POINT NAME                                                          |            |             |             |       | LATITUDE              |            |            |       |             | LONGITUDE              |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| ECGIG                                                               |            |             |             |       | N365122.40            |            |            |       |             | W0832227.02            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| JEXIL                                                               |            |             |             |       | N364906.35            |            |            |       |             | W0832849.60            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| WEVOR                                                               |            |             |             |       | N364652.32            |            |            |       |             | W0833505.17            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| RUNWAYS                                                             |            |             |             |       |                       |            |            |       |             |                        |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |                        |  |  |  |  |                  |
| RUNWAY                                                              |            |             |             |       | THRESHOLD<br>LATITUDE |            |            |       |             | THRESHOLD<br>LONGITUDE |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | THRESHOLD<br>ELEVATION |  |  |  |  | PROCEDURE<br>TCH |
| RW08                                                                |            |             |             |       | N365129.51            |            |            |       |             | W0832151.18            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            | 01524                  |  |  |  |  | 40               |

|                                     |                                                 |       |                                         |                                                                                             |                   |
|-------------------------------------|-------------------------------------------------|-------|-----------------------------------------|---------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><b>HARLAN, KY</b> | ELEVATION: <b>1564</b>                          | TDZE: | FACILITY IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS)-A, ORIG</b><br><br>21 JULY 2016 | SUP:              |
|                                     | AIRPORT NAME:<br><b>TUCKER-GUTHRIE MEMORIAL</b> |       |                                         |                                                                                             | AMDT: <b>NONE</b> |
|                                     |                                                 |       |                                         |                                                                                             | DATED:            |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State | Airport                 | Effective Date | Amdt. No. |
|-------------|-------------------------|----------------|-----------|
| HARLAN, KY  | TUCKER-GUTHRIE MEMORIAL | 21 JULY 2016   | ORIG      |

**TAKEOFF MINIMUMS:**

RWY 8, STANDARD WITH MINIMUM CLIMB OF 470 FT PER NM TO 4200, OR 2800-3 FOR VCOA.

RWY 26, 1000-3 WITH MINIMUM CLIMB OF 430 FT PER NM TO 3000, OR 2800-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 8: CLIMB ON HEADING 080.17 TO 4200 BEFORE PROCEEDING ON COURSE.

RWY 26: CLIMB ON HEADING 250.18 TO 4200 BEFORE PROCEEDING ON COURSE.

**VISUAL CLIMB OVER AIRPORT:**

RWY 8, 26: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TUCKER-GUTHRIE MEMORIAL AT OR ABOVE 4200 FT BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 8, TREES BEGINNING 350 FT FROM DER, 97 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1619 FT MSL. TREES BEGINNING 359 FT FROM DER, 126 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1739 FT MSL. TREES BEGINNING 1105 FT FROM DER, 308 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1779 FT MSL. TREES BEGINNING 1471 FT FROM DER, 369 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1819 FT MSL. TREES BEGINNING 3951 FT FROM DER, 826 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1859 FT MSL. TREES BEGINNING 1.9 NM FROM DER, 3003 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2099 FT MSL. TREES BEGINNING 2.2 NM FROM DER, 2674 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2299 FT MSL. TREES BEGINNING 2.5 NM FROM DER, 1549 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2139 FT MSL.

NOTE: RWY 26, TREES BEGINNING 113 FT FROM DER, 220 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1539 FT MSL. TREES BEGINNING 187 FT FROM DER, 147 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1619 FT MSL. TREES BEGINNING 2112 FT FROM DER, 677 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1739 FT MSL. TREES BEGINNING 2913 FT FROM DER, 944 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1819 FT MSL. TOWER 1.5 NM FROM DER, 1294 FT LEFT OF CENTERLINE, 343 FT AGL/1802 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 3222 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2139 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 8: 3295 FT MSL AAO, 365239.00N/0831512.00W (CLIMB GRADIENT)

RWY 26: 2599 FT MSL AAO, 365128.14N/0832559.53W (CLIMB GRADIENT); 2339 FT MSL TREE, 365135.04N/0832441.65W (CEILING)

RWY 8, 26 (VCOA): 3815 FT MSL TOWER, 3648.00N/0832236.00W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 8: 3559 FT MSL AAO, 365257.00N/0831354.00W

RWY 26: 2759 FT MSL AAO, 365135.15N/0832557.48W; 3815 FT MSL TOWER, 3648.00N/0832236.00W



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport                 | Effective Date | Amdt. No. |
|-------------|-------------------------|----------------|-----------|
| HARLAN, KY  | TUCKER-GUTHRIE MEMORIAL | 21 JULY 2016   | ORIG      |

**REMARKS:**

RWY 26 HEADING IS 10 DEGREES LEFT OF CL TO REDUCE CG FROM 497 TO 430.

RAPIDLY RISING / PRECIPITOUS TERRAIN IN VICINITY OF AIRPORT.

**FLIGHT INSPECTED BY:**

*Digitally signed by*

KEVIN RIESE

FICO

**JULIE A MORGAN**

Jun 03, 2016

05/04/2016

**REQUIRED EFFECTIVE DATE:**

CONCURRENT WITH KI35 RNAV  
(GPS)-A, ORIG

**DEVELOPED BY:** *Digitally signed by*

DAN POWELL

**DAN POWELL**

Jun 02, 2016

AJV-5413

12/17/2015

**APPROVED BY:**

MARLON ROBINSON

AJV-5410

*Digitally signed by*

**JULIE A MORGAN**

Jun 03, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZID, AMGR

**CHANGES:**

ORIGINAL.

**REASONS:**

FPT REQUEST.

06/02/16: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/23/16.

1. AIRPORT NAME CORRECTED TO READ TUCKER-GUTHRIE MEMORIAL.

QUALITY  
4  
CHECKED



|                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|----------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|--------------------------------------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                           |        | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   | MISSED APPROACH              |       |                                      |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                         |        | TO                                                                          |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                      | ALTITUDE       |       | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW18<br><br>CLIMB TO 3100 DIRECT ANETT AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 359.64 INBOUND.<br>FAS OBST: 1180 AAO 374139N/0842050W<br>DISTANCE TO THLD FROM 250 HAT: 0.70 NM.<br>CHART VDP AT 1.32 NM TO RW18*<br>*LNAV ONLY.<br>WAAS CHANNEL # 63114<br>REFERENCE PATH ID: W18A<br>CHART CIRCLING ICON.<br>LTP HAE: 262.3 M |                              |       |                                      |        |     |         |
| OAKUM (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                  |        | QEFFO (NOPT) (FB)                                                           |         | 269.70 / 7.00                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                      | 3100           |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| PACID (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                  |        | QEFFO (NOPT) (FB)                                                           |         | 089.52 / 7.00                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                      | 3100           |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| QEFFO (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                               |        | RAXEW (FB)                                                                  |         | 179.61 / 6.00                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                      | 2600           |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| RAXEW (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                  |        | RW18 (MAP) (FO)                                                             |         | 179.61 / 5.01                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| RW18 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 1228 MSL                                                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 1228 MSL                                                                                                                                                                                                                                                                                                                                                                                                                     |        | ANETT (FO)                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      | 3100           |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                                                                                         |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   | MAG VAR: 5W EPOCH YEAR: 2010 |       |                                      |        |     |         |
| 2. HOLD N QEFFO, RT, 179.61 INBOUND, 3100 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                                                                                            |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 3. FAC: 179.61 FAF: RAXEW DIST FAF TO MAP: 5.01 THLD: 5.01                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 4. MIN. ALT: QEFFO 3100, RAXEW 2600                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                                                                                               |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 6. MIN GS INCPT: 2600 GS ALT AT: RAXEW 2600 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                                                                                    |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 7. GS ANGLE: 3.00 TCH: 40.2 34:1 IS CLEAR                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| 8. MSA FROM: _____                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      | ALTERNATE: N A |       | STANDARD @                                                                                                                                                                                                                                                                                                                                                                        |                              |       |                                      |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                              |        | A                                                                           |         | B                                                                                                                                                                                                                                                                                                                                                                    |     | C                                                                                    |                | D     |                                                                                                                                                                                                                                                                                                                                                                                   | E                            |       |                                      |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                                                         | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                                                                              | DH/MDA         | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                           | DH/MDA                       | VIS   | HAT/HAA                              | DH/MDA | VIS | HAT/HAA |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                       | 1228   | 7/8                                                                         | 250     | 1228                                                                                                                                                                                                                                                                                                                                                                 | 7/8 | 250                                                                                  | 1228           | 7/8   | 250                                                                                                                                                                                                                                                                                                                                                                               | 1228                         | 7/8   | 250                                  |        |     |         |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                 | 1274   | 1                                                                           | 296     | 1274                                                                                                                                                                                                                                                                                                                                                                 | 1   | 296                                                                                  | 1274           | 1     | 296                                                                                                                                                                                                                                                                                                                                                                               | 1274                         | 1     | 296                                  |        |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                     | 1440   | 1                                                                           | 462     | 1440                                                                                                                                                                                                                                                                                                                                                                 | 1   | 462                                                                                  | 1440           | 1 3/8 | 462                                                                                                                                                                                                                                                                                                                                                                               | 1440                         | 1 3/8 | 462                                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                     | 1440   | 1                                                                           | 437     | 1520                                                                                                                                                                                                                                                                                                                                                                 | 1   | 517                                                                                  | 1520           | 1 1/2 | 517                                                                                                                                                                                                                                                                                                                                                                               | 1780                         | 2 1/2 | 777                                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.<br>CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/2<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LEXINGTON ALTIMETER SETTING AND INCREASE LPV DA TO 1295 FT, LNAV/VNAV DA TO 1341 FT AND ALL MDA 80 FT; INCREASE LPV ALL CATS<br>(CONTINUED ON PAGE 2) |        |                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                      |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                                      |        |     |         |
| CITY AND STATE<br>RICHMOND, KY                                                                                                                                                                                                                                                                                                                                                                                               |        | ELEVATION: 1003 TDZE: 978<br>AIRPORT NAME:<br>CENTRAL KENTUCKY REGIONAL     |         | FACILITY IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                         |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 18, AMDT 1D<br>21 JULY 2016 |                |       |                                                                                                                                                                                                                                                                                                                                                                                   |                              |       | SUP:<br>AMDT: 1C<br>DATED 02/04/2016 |        |     |         |

QUALITY  
6  
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

VISIBILITY 1/4 MILE; LNAV/VNAV ALL CATS AND LNAV CATS C AND D 1/4 MILE AND CIRCLING VISIBILITY CAT C 1/8 MILE, CAT D 1/4 MILE.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING LEXINGTON ALTIMETER SETTING.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 090/30 CW 270/30 (NOPT) | QEFFO (IF/IAF) (FB) | 3100 |
| 2. | 270/30 CW 360/30        | 270/26 CW 360/26    | 3600 |
| 3. | 270/26 CW 360/26        | OAKUM (IAF) (FB)    | 3200 |
| 4. | 360/30 CW 090/30        | PACID (IAF) (FB)    | 3200 |

QUALITY  
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CHECKED

CITY AND STATE  
RICHMOND, KY

ELEVATION: 1003 TDZE: 978  
AIRPORT NAME:  
CENTRAL KENTUCKY REGIONAL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 18, AMDT 1D  
21 JULY 2016

SUP:  
AMDT: 1C  
DATED: 02/04/2016

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KRGA          |
| RUNWAY                                   | RW18          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W18A          |
| LTP/FTP LATITUDE                         | 373818.1315N  |
| LTP/FTP LONGITUDE                        | 0841959.6960W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +02623        |
| FPAP LATITUDE                            | 373649.3200N  |
| FPAP LONGITUDE                           | 0841949.1800W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.2       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1224          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

A4645BC4

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +02941 |
| FPAP ORTHOMETRIC HEIGHT | +02941 |

QUALITY  
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CHECKED

CITY AND STATE

RICHMOND, KY

ELEVATION: 1003

TDZE: 978

AIRPORT NAME:

CENTRAL KENTUCKY REGIONAL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, AMDT 1D

21 JULY 2016

SUP:

AMDT: 1C

DATED: 02/04/2016

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KRG

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| OAKUM      | 010        | OAKUM       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| OAKUM      | 020        | QEFFO       | TF          | FB    | 1.0 | 269.7      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
| PACID      | 010        | PACID       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| PACID      | 020        | QEFFO       | TF          | FB    | 1.0 | 089.5      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
| QEFFO      | 010        | QEFFO       | HF          | FO    |     | 179.6      |            |       | R           |               |                | AA 03100                           |                                       | EE A                       |
|            | 010        | QEFFO       | IF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E I                        |
|            | 020        | RAXEW       | TF          | FB    | 1.0 | 179.6      |            |       |             |               |                | AA 02600                           |                                       | E F                        |
|            | 030        | RW18        | TF          | FO    | 0.3 | 179.6      |            | 3.00  |             |               |                | AT 01005                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 179.6      |            |       |             |               |                | AA 01228                           |                                       | M                          |
|            | 050        | ANETT       | DF          | FO    |     |            |            |       |             |               |                | AA 03100                           |                                       | EY                         |
|            | 060        | ANETT       | HM          | FO    |     | 359.6      |            |       | R           |               |                | AA 03100                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ANETT      | N372637.57 | W0841836.97 |
| OAKUM      | N374955.74 | W0841230.06 |
| PACID      | N374836.74 | W0843005.52 |
| QEFFO      | N374916.57 | W0842117.87 |
| RAXEW      | N374317.62 | W0842035.21 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW18   | N373818.13            | W0841959.70            | 00965                  | 40               |

QUALITY  
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CHECKED

|                                       |                                                                                              |                                            |                                                                                                     |                          |
|---------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>RICHMOND, KY</b> | ELEVATION: <b>1003</b> <b>TDZE: 978</b><br>AIRPORT NAME:<br><b>CENTRAL KENTUCKY REGIONAL</b> | FACILITY<br>IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 18, AMDT 1D</b><br><br>21 JULY 2016 | SUP:                     |
|                                       |                                                                                              |                                            |                                                                                                     | AMDT: <b>1C</b>          |
|                                       |                                                                                              |                                            |                                                                                                     | DATED: <b>02/04/2016</b> |

|                                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|--------------------------------------------------------------------------|-----|---------|-----------------------------------------------------------------------------|---------------------------------|---------|--------------------------------------------------------------------------------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                    |        |     |         |                                                                          |     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      | MISSED APPROACH |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                  |        |     |         | TO                                                                       |     |         | COURSE AND DISTANCE                                                         |                                 |         |                                                                                      | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW36                                                                                                                                                                                                                                                                                                               |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| JUMOP (IAF)                                                                                                                                                                                                                                                                                                                                                           |        |     |         | ANETT (NOPT) (FB)                                                        |     |         | 089.55 / 7.00                                                               |                                 |         |                                                                                      | 3100     |         | CLIMB TO 3100 DIRECT QEFFO AND HOLD.                                                                                                                                                                                                                                                                                                                 |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| EBTAC (IAF)                                                                                                                                                                                                                                                                                                                                                           |        |     |         | ANETT (NOPT) (FB)                                                        |     |         | 269.73 / 7.00                                                               |                                 |         |                                                                                      | 3100     |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| ANETT (IF/IAF)                                                                                                                                                                                                                                                                                                                                                        |        |     |         | CICJO (FB)                                                               |     |         | 359.64 / 6.00                                                               |                                 |         |                                                                                      | 2600     |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CICJO (FAF)                                                                                                                                                                                                                                                                                                                                                           |        |     |         | BRIGY/2.60 NM TO RW36 (FB)                                               |     |         | 359.63 / 2.29                                                               |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| BRIGY/2.60 NM TO RW36                                                                                                                                                                                                                                                                                                                                                 |        |     |         | RW36 (MAP) (FO)                                                          |     |         | 359.63 / 2.60                                                               |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| RW36 (MAP)                                                                                                                                                                                                                                                                                                                                                            |        |     |         | 1264 MSL                                                                 |     |         | 359.63                                                                      |                                 |         |                                                                                      | 3100     |         | ADDITIONAL FLIGHT DATA:<br>HOLD N, RT, 179.61 INBOUND.<br>CHART FAS OBST: 1191 COMMUNICATION TWR<br>373549N/0841923W<br>CHART 1728 TOWER 373241N/0841741W.<br>DISTANCE TO THLD FROM 261 HAT: 0.69 NM.<br>CHART VDP AT 1.35 NM TO RW36*<br>*LNAV ONLY.<br>WAAS CHANNEL # 40218<br>REFERENCE PATH ID: W36A<br>CHART CIRCLING ICON.<br>LTP HAE: 273.8 M |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 1264 MSL                                                                                                                                                                                                                                                                                                                                                              |        |     |         | QEFFO (FO)                                                               |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                                  |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 2. HOLD S ANETT, RT, 359.64 INBOUND, 3100 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                                     |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 3. FAC: 359.63 FAF: CICJO DIST FAF TO MAP: 4.89 THLD: 4.89                                                                                                                                                                                                                                                                                                            |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 4. MIN. ALT: ANETT 3100, CICJO 2600, BRIGY/2.60 NM TO RW36 1860*                                                                                                                                                                                                                                                                                                      |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                                        |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 6. MIN GS INCPT: 2600 GS ALT AT: CICJO 2600 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                             |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                                                         |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 8. MSA FROM: _____                                                                                                                                                                                                                                                                                                                                                    |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| MAG VAR: 5W EPOCH YEAR: 2010                                                                                                                                                                                                                                                                                                                                          |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                              |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                       |        |     |         |                                                                          |     |         | ALTERNATE: N A                                                              |                                 |         | STANDARD @                                                                           |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                       |        | A   |         |                                                                          | B   |         |                                                                             | C                               |         |                                                                                      | D        |         |                                                                                                                                                                                                                                                                                                                                                      | E               |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                       | DH/MDA | VIS | HAT/HAA | DH/MDA                                                                   | VIS | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                               | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                               | VIS             | HAT/HAA |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                | 1264   | 7/8 | 261     | 1264                                                                     | 7/8 | 261     | 1264                                                                        | 7/8                             | 261     | 1264                                                                                 | 7/8      | 261     |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                          | 1278   | 7/8 | 275     | 1278                                                                     | 7/8 | 275     | 1278                                                                        | 7/8                             | 275     | 1278                                                                                 | 7/8      | 275     |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                              | 1460   | 1   | 457     | 1460                                                                     | 1   | 457     | 1460                                                                        | 1 3/8                           | 457     | 1460                                                                                 | 1 3/8    | 457     |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                              |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                       | 1460   | 1   | 457     | 1520                                                                     | 1   | 517     | 1520                                                                        | 1 1/2                           | 517     | 1780                                                                                 | 2 1/2    | 777     |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LEXINGTON ALTIMETER SETTING AND<br>(CONTINUED ON PAGE 2) |        |     |         |                                                                          |     |         |                                                                             |                                 |         |                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         |                                      |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CITY AND STATE<br>RICHMOND, KY                                                                                                                                                                                                                                                                                                                                        |        |     |         | ELEVATION: 1003 TDZE: 1003<br>AIRPORT NAME:<br>CENTRAL KENTUCKY REGIONAL |     |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 36, AMDT 2B<br>21 JULY 2016 |          |         |                                                                                                                                                                                                                                                                                                                                                      |                 |         | SUP:<br>AMDT: 2A<br>DATED 02/04/2016 |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.  
@ CAT D 800-2 1/2QUALITY  
6  
CHECKED

**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

INCREASE LPV DA TO 1331 FEET, LNAV/VNAV DA TO 1345 FEET AND ALL MDA 80 FEET; INCREASE LPV ALL CATS AND LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE; INCREASE LNAV CATS C AND D 1/8 MILE AND CIRCLING VISIBILITY CAT D 1/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING LEXINGTON ALTIMETER SETTING.

**TAA**

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 270/30 CW 090/30 (NOPT) | 270/15 CW 090/15    | 3600 |
| 2. | 270/15 CW 090/15        | ANETT (IF/IAF) (FB) | 3100 |
| 3. | 090/30 CW 180/30        | JUMOP (IAF) (FB)    | 3200 |
| 4. | 180/30 CW 270/30        | EBTAC (IAF) (FB)    | 3200 |

QUALITY  
6  
CHECKED

CITY AND STATE

RICHMOND, KY

ELEVATION: 1003

TDZE: 1003

AIRPORT NAME:

CENTRAL KENTUCKY REGIONAL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, AMDT 2B

21 JULY 2016

SUP:

AMDT: 2A

DATED: 02/04/2016

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KRGA          |
| RUNWAY                                   | RW36          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W36A          |
| LTP/FTP LATITUDE                         | 373728.9060N  |
| LTP/FTP LONGITUDE                        | 0841953.8745W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +02738        |
| FPAP LATITUDE                            | 373857.7175N  |
| FPAP LONGITUDE                           | 0842004.3945W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1224          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

165B05B0

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +03056 |
| FPAP ORTHOMETRIC HEIGHT | +03056 |

QUALITY  
6  
CHECKED

CITY AND STATE

RICHMOND, KY

ELEVATION: 1003

TDZE: 1003

AIRPORT NAME:

CENTRAL KENTUCKY REGIONAL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, AMDT 2B

21 JULY 2016

SUP:

AMDT: 2A

DATED: 02/04/2016

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KRG

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ANETT      | 010        | ANETT       | HF          | FO    |     | 359.6      |            |       | R           |               |                | AA 03100                           |                                       | EE A                       |
| EBTAC      | 010        | EBTAC       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| EBTAC      | 020        | ANETT       | TF          | FB    | 1.0 | 269.7      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
| JUMOP      | 010        | JUMOP       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| JUMOP      | 020        | ANETT       | TF          | FB    | 1.0 | 089.6      |            |       |             |               |                | AA 03100                           |                                       | EE B                       |
|            | 010        | ANETT       | IF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E I                        |
|            | 020        | CICJO       | TF          | FB    | 1.0 | 359.6      |            |       |             |               |                | AA 02600                           |                                       | E F                        |
|            | 021        | BRIGY       | TF          | FB    | 0.3 | 359.6      |            | 3.00  |             |               |                | AA 01860 GS 01871                  |                                       | E S                        |
|            | 030        | RW36        | TF          | FO    | 0.3 | 359.6      |            | 3.00  |             |               |                | AT 01043                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 359.6      |            |       |             |               |                | AA 01264                           |                                       | M                          |
|            | 050        | QEFFO       | DF          | FO    |     |            |            |       |             |               |                | AA 03100                           |                                       | EY                         |
|            | 060        | QEFFO       | HM          | FO    |     | 179.6      |            |       | R           |               |                | AA 03100                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ANETT      | N372637.57 | W0841836.97 |
| BRIGY      | N373453.41 | W0841935.47 |
| CICJO      | N373236.42 | W0841919.28 |
| EBTAC      | N372716.52 | W0840951.80 |
| JUMOP      | N372557.96 | W0842721.99 |
| QEFFO      | N374916.57 | W0842117.87 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW36   | N373728.91            | W0841953.87            | 01003                  | 40               |

QUALITY  
6  
CHECKED

|                                       |                                                                                               |                                         |                                                                                                 |                          |
|---------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>RICHMOND, KY</b> | ELEVATION: <b>1003</b> <b>TDZE: 1003</b><br>AIRPORT NAME:<br><b>CENTRAL KENTUCKY REGIONAL</b> | FACILITY IDENTIFIER:<br><br><b>RNAV</b> | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 36, AMDT 2B</b><br>21 JULY 2016 | SUP:                     |
|                                       |                                                                                               |                                         |                                                                                                 | AMDT: <b>2A</b>          |
|                                       |                                                                                               |                                         |                                                                                                 | DATED: <b>02/04/2016</b> |



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State  | Airport                   | Effective Date | Amdt. No. |
|--------------|---------------------------|----------------|-----------|
| RICHMOND, KY | CENTRAL KENTUCKY REGIONAL | 21 JULY 2016   | 1A        |

**TAKEOFF MINIMUMS:**

RWY 18, 36 STANDARD

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 18 – CLIMB HEADING 179.62 TO 1900 BEFORE TURNING LEFT.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 18,** TREES, BEGINNING 19 FT FROM DER, 296 FT RIGHT OF CENTERLINE, UP TO 1018 FT MSL. TREE 579 FT FROM DER, 563 FT LEFT OF CENTERLINE, 1038 FT MSL. TREES, BEGINNING 600 FT FROM DER, 479 FT LEFT OF CENTERLINE, 1048 FT MSL. TREES, BEGINNING 824 FT FROM DER, 579 FT RIGHT OF CENTERLINE, 1055 FT MSL. TREES, BEGINNING 1637 FT FROM DER, 558 FT RIGHT OF CENTERLINE, UP TO 1065 FT MSL. TREE 2293 FT FROM DER, 374 FT LEFT OF CENTERLINE, 1068 FT MSL. TREE 2355 FT FROM DER, 256 FT LEFT OF CENTERLINE, 1069 FT MSL. TREES, BEGINNING 2422 FT FROM DER, 36 FT LEFT OF CENTERLINE, UP TO 1073 FT MSL. TREES, BEGINNING 2443 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 1081 FT MSL. TREE 2468 FT FROM DER, 109 FT RIGHT OF CENTERLINE, 1070 FT MSL. TREE 2605 FT FROM DER, 112 FT RIGHT OF CENTERLINE, 1072 FT MSL.

**NOTE: RWY 36,** FENCE, BEGINNING 5 FT FROM DER, 402 FT RIGHT OF CENTERLINE, UP TO 968 FT MSL. TREE 21 FT FROM DER, 330 FT LEFT OF CENTERLINE, 978 FT MSL.

**CONTROLLING OBSTACLES:**

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 18: 1739 FT MSL TOWER 373310.00N/0841717.00W



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State  | Airport                   | Effective Date | Amdt. No. |
|--------------|---------------------------|----------------|-----------|
| RICHMOND, KY | CENTRAL KENTUCKY REGIONAL | 21 JULY 2016   | 1A        |

**REMARKS:**

**FLIGHT INSPECTED BY:**

SCOTT WIEBE  
*Digitally signed by*  
**JULIE A MORGAN**<sup>FICO</sup>

05/19/2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

Jun 10, 2016

ANDI JO LAU

AJV-5413

*Digitally signed by*

**ANDI LAU**

4/11/2016

Apr 14, 2016

**APPROVED BY:**

MARLON ROBINSON

AJV-5410

*Digitally signed by*

**JULIE A MORGAN**

Jun 10, 2016

**COORDINATED WITH:**

AOPA, NBAA, ZBW, APT MANAGER

**CHANGES:**

1. UPDATED TAKEOFF OBSTACLE NOTES TO CURRENT DOCUMENTATION REQUIREMENTS.
2. AIRPORT NAME AND ID CHANGED FROM KI39, MADISON TO KRG, CENTRAL KENTUCKY REGIONAL.

**REASONS:**

1. UPDATED CRITERIA AND OBSTACLE INFORMATION.
2. UPDATED AIRPORT DATA AND NAMING.

QUALITY  
6  
CHECKED

|                                                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-----------------|-----------------------------------------------------------------------------|------|---------------------|---------|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------|---------|-----|-----|--------------------------------------------------|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23                                                   |  |      |                 |                                                                             |      |                     |         |                             |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                              |            |         |     |     |                                                  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| FROM                                                                                                                                                                                                                      |  |      | TO              |                                                                             |      | COURSE AND DISTANCE |         |                             | ALTITUDE |                                                                                                                                                                                                                                                                                                                                                                      | MAP: HYK 20.74 DME FIX                                                       |            |         |     |     |                                                  |  |  |  |
| HYK VORTAC (IF/IAF)                                                                                                                                                                                                       |  |      | HAGEN/15.00 DME |                                                                             |      | 161.33 / 15.00      |         |                             | 2800     |                                                                                                                                                                                                                                                                                                                                                                      | CLIMBING RIGHT TURN TO 2800 ON HYK VORTAC R-161 TO HAGEN/15.00 DME AND HOLD. |            |         |     |     |                                                  |  |  |  |
|                                                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          | ADDITIONAL FLIGHT DATA:<br>HOLD N, RT, 161.33 INBOUND.<br>CHART FAS OBST: 1201 TOWER 374018N/0841835W<br>HAGEN TO RW18: 2.95/40.<br>CHART CIRCLING ICON.                                                                                                                                                                                                             |                                                                              |            |         |     |     |                                                  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                      |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| 2. PROFILE STARTS AT HYK VORTAC                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| 3. FAC 161.33 FAF HAGEN/15.00 DME                                                                                                                                                                                         |  |      |                 |                                                                             |      |                     |         |                             |          | DIST FAF TO MAP _____ THLD 5.74                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| 4. MIN. ALT HYK VORTAC 2800, HAGEN 2800                                                                                                                                                                                   |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| 8. MSA FROM: HYK VORTAC 3100                                                                                                                                                                                              |  |      |                 |                                                                             |      |                     |         |                             |          | MAG VAR: 0E EPOCH YEAR: 1965                                                                                                                                                                                                                                                                                                                                         |                                                                              |            |         |     |     |                                                  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                  |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |                                                                              | STANDARD @ |         |     |     |                                                  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                           |  | A    |                 |                                                                             | B    |                     |         | C                           |          |                                                                                                                                                                                                                                                                                                                                                                      | D                                                                            |            |         | E   |     |                                                  |  |  |  |
|                                                                                                                                                                                                                           |  | MDA  | VIS             | HAT/HAA                                                                     | MDA  | VIS                 | HAT/HAA | MDA                         | VIS      | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | MDA                                                                          | VIS        | HAT/HAA | MDA | VIS | HAT/HAA                                          |  |  |  |
| S-18                                                                                                                                                                                                                      |  | 1460 | 1               | 482                                                                         | 1460 | 1                   | 482     | 1460                        | 1 3/8    | 482                                                                                                                                                                                                                                                                                                                                                                  | 1460                                                                         | 1 3/8      | 482     |     |     |                                                  |  |  |  |
| CIRCLING                                                                                                                                                                                                                  |  | 1460 | 1               | 457                                                                         | 1520 | 1                   | 517     | 1520                        | 1 1/2    | 517                                                                                                                                                                                                                                                                                                                                                                  | 1780                                                                         | 2 1/2      | 777     |     |     |                                                  |  |  |  |
|                                                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
|                                                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
|                                                                                                                                                                                                                           |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| NOTES:                                                                                                                                                                                                                    |  |      |                 |                                                                             |      |                     |         |                             |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |            |         |     |     |                                                  |  |  |  |
| CHART NOTE: DME REQUIRED.                                                                                                                                                                                                 |  |      |                 |                                                                             |      |                     |         |                             |          | @ NA WHEN LOCAL WEATHER NOT AVAILABLE.                                                                                                                                                                                                                                                                                                                               |                                                                              |            |         |     |     |                                                  |  |  |  |
| CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HYK VORTAC AIRWAY RADIALS 103 CW 202.                                                                                                                                   |  |      |                 |                                                                             |      |                     |         |                             |          | @ CAT D 800-2 1/2                                                                                                                                                                                                                                                                                                                                                    |                                                                              |            |         |     |     |                                                  |  |  |  |
| CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LEXINGTON ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE S-18 CATS C AND D VISIBILITY 1/4 MILE; CIRCLING CAT C 1/8 MILE AND CIRCLING CAT D 1/4 MILE. |  |      |                 |                                                                             |      |                     |         |                             |          | QUALITY<br>6<br>CHECKED                                                                                                                                                                                                                                                                                                                                              |                                                                              |            |         |     |     |                                                  |  |  |  |
| CITY AND STATE<br>RICHMOND, KY                                                                                                                                                                                            |  |      |                 | ELEVATION: 1003 TDZE: 978<br>AIRPORT NAME:<br><br>CENTRAL KENTUCKY REGIONAL |      |                     |         | FACILITY IDENTIFIER:<br>HYK |          | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>VOR RWY 18, AMDT 7B<br>21 JULY 2016                                                                                                                                                                                                                                                                                        |                                                                              |            |         |     |     | SUP VOR/DME RWY 18<br>AMDT 7A<br>DATE 05/29/2014 |  |  |  |

|                                                                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|---------|--------------------------------------------------------------------------|-----|---------------------|-----------------------------|-------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------|--------------------------------------------------------|-----|---------|--|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>NDB STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27                                  |     |     |         |                                                                          |     |                     |                             |       |                                                                              | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                         |            |                                                        |     |         |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| FROM                                                                                                                                                                                                     |     |     | TO      |                                                                          |     | COURSE AND DISTANCE |                             |       | ALTITUDE                                                                     |                                                                                                                                                                                                                                                                                                                                                                      | MAP: CGE NDB                                            |            |                                                        |     |         |  |  |  |  |
| GOFER INT                                                                                                                                                                                                |     |     | CGE NDB |                                                                          |     | 068.87 / 13.70      |                             |       | 2000                                                                         |                                                                                                                                                                                                                                                                                                                                                                      | CLIMBING RIGHT TURN TO 2100 IN CGE NDB HOLDING PATTERN. |            |                                                        |     |         |  |  |  |  |
| CHOPS INT                                                                                                                                                                                                |     |     | CGE NDB |                                                                          |     | 203.83 / 13.85      |                             |       | 2000                                                                         |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
|                                                                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              | ADDITIONAL FLIGHT DATA:<br>HOLD SE, RT, 327.83 INBOUND.<br>FAS OBST: 214 AAO 383102N/0755731W<br>CHART CIRCLING ICON.<br>CHART IN PLANVIEW: (CFBHV) 382746.88N/0755642.38W.<br>CHART: MAX 6000 AT CGE NDB                                                                                                                                                            |                                                         |            |                                                        |     |         |  |  |  |  |
| 1. PT <u>L</u> SIDE OF COURSE <u>147.83</u> OUTBOUND <u>1800</u> FT WITHIN <u>10</u> MILES OF <u>CGE NDB</u> (IAF)                                                                                       |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| 2.                                                                                                                                                                                                       |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| 3. FAC <u>327.83</u> FAF                                                                                                                                                                                 |     |     |         |                                                                          |     |                     |                             |       |                                                                              | DIST FAF TO MAP THLD                                                                                                                                                                                                                                                                                                                                                 |                                                         |            |                                                        |     |         |  |  |  |  |
| 4. MIN. ALT                                                                                                                                                                                              |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| 8. MSA FROM: CGE NDB 090-180 2100, 180-090 1700                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              | MAG VAR: 10W EPOCH YEAR:1985                                                                                                                                                                                                                                                                                                                                         |                                                         |            |                                                        |     |         |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                 |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |                                                         | STANDARD @ |                                                        |     |         |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                          |     | A   |         |                                                                          | B   |                     |                             | C     |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      | D                                                       |            |                                                        | E   |         |  |  |  |  |
|                                                                                                                                                                                                          | MDA | VIS | HAT/HAA | MDA                                                                      | VIS | HAT/HAA             | MDA                         | VIS   | HAT/HAA                                                                      | MDA                                                                                                                                                                                                                                                                                                                                                                  | VIS                                                     | HAT/HAA    | MDA                                                    | VIS | HAT/HAA |  |  |  |  |
| S-34                                                                                                                                                                                                     | 580 | 1   | 560     | 580                                                                      | 1   | 560                 | 580                         | 1 5/8 | 560                                                                          | 580                                                                                                                                                                                                                                                                                                                                                                  | 1 5/8                                                   | 560        |                                                        |     |         |  |  |  |  |
| CIRCLING                                                                                                                                                                                                 | 580 | 1   | 560     | 580                                                                      | 1   | 560                 | 660                         | 1 3/4 | 640                                                                          | 780                                                                                                                                                                                                                                                                                                                                                                  | 2 1/2                                                   | 760        |                                                        |     |         |  |  |  |  |
|                                                                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
|                                                                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
|                                                                                                                                                                                                          |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| NOTES:                                                                                                                                                                                                   |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.                                                                                                                                   |     |     |         |                                                                          |     |                     |                             |       |                                                                              | @ NA WHEN LOCAL WEATHER NOT AVAILABLE.                                                                                                                                                                                                                                                                                                                               |                                                         |            |                                                        |     |         |  |  |  |  |
| CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALISBURY ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND INCREASE S-34 CAT C AND D VISIBILITY 1/8 MILE AND CIRCLING CAT C AND D 1/4 MILE. |     |     |         |                                                                          |     |                     |                             |       |                                                                              | @ CAT D 800-2 1/2                                                                                                                                                                                                                                                                                                                                                    |                                                         |            |                                                        |     |         |  |  |  |  |
| CHART NOTE: NIGHT LANDING: RWY 16 NA.                                                                                                                                                                    |     |     |         |                                                                          |     |                     |                             |       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            |                                                        |     |         |  |  |  |  |
| CITY AND STATE<br>CAMBRIDGE, MD                                                                                                                                                                          |     |     |         | ELEVATION: 20 TDZE: 20<br>AIRPORT NAME:<br><br>CAMBRIDGE-DORCHESTER RGNL |     |                     | FACILITY IDENTIFIER:<br>CGE |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>NDB RWY 34, AMDT 8<br>21 JULY 2016 |                                                                                                                                                                                                                                                                                                                                                                      |                                                         |            | SUP NDB OR GPS RWY<br>34<br>AMDT 7B<br>DATE 05/02/2013 |     |         |  |  |  |  |



**NDB STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY  
24  
CHECKED

CITY AND STATE

CAMBRIDGE, MD

ELEVATION: 20

TDZE: 20

AIRPORT NAME:

CAMBRIDGE-DORCHESTER RGNL

FACILITY  
IDENTIFIER:

CGE

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB RWY 34, AMDT 8

21 JULY 2016

SUP: NDB OR GPS RWY  
34

AMDT: 7B

DATED: 05/02/2013

|                                                                                                                                                                                                                                                                                               |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|----------------------------------------------------------------------|-----|---------|-----------------------------------------------------------------------------|---------------------------------|---------|-----------------------------------------------------------------------------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                            |        |     |         |                                                                      |     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                               |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            | MISSED APPROACH |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                          |        |     |         | TO                                                                   |     |         | COURSE AND DISTANCE                                                         |                                 |         |                                                                                   | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW34                                                                                                                                                                                                                                                     |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| GOFER                                                                                                                                                                                                                                                                                         |        |     |         | PROFS (FO)                                                           |     |         | 106.42 / 18.69                                                              |                                 |         |                                                                                   | 2000     |         | CLIMB TO 2000 DIRECT OVAYO AND HOLD.                                                                                                                                                                                                                                                       |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| SBY VORTAC (IAF)                                                                                                                                                                                                                                                                              |        |     |         | PROFS (NOPT) (FB)                                                    |     |         | 287.51 / 17.84                                                              |                                 |         |                                                                                   | 2000     |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| PROFS (IF/IAF)                                                                                                                                                                                                                                                                                |        |     |         | WUGUM (FB)                                                           |     |         | 333.91 / 6.10                                                               |                                 |         |                                                                                   | 1700     |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| WUGUM (FAF)                                                                                                                                                                                                                                                                                   |        |     |         | RW34 (MAP) (FO)                                                      |     |         | 333.86 / 5.11                                                               |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RW34 (MAP)                                                                                                                                                                                                                                                                                    |        |     |         | 282 MSL                                                              |     |         | 333.86                                                                      |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 282 MSL                                                                                                                                                                                                                                                                                       |        |     |         | OVAYO (FO)                                                           |     |         |                                                                             |                                 |         |                                                                                   | 2000     |         | ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 153.72 INBOUND.<br>FAS OBST: 209 AAO 383018N/0755910W<br>DISTANCE TO THLD FROM 262 HAT: 0.66 NM.<br>CHART VDP AT 1.18 MILES TO RW34*<br>*LNAV ONLY.<br>WAAS CHANNEL # 45540<br>REFERENCE PATH ID: W34A<br>CHART CIRCLING ICON.<br>LTP HAE: -30.4 M |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                          |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 2. HOLD SE PROFS, RT, 333.91 INBOUND, 2000 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                            |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 3. FAC: 333.86 FAF: WUGUM DIST FAF TO MAP: 5.11 THLD: 5.11                                                                                                                                                                                                                                    |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 4. MIN. ALT: PROFS 2000, WUGUM 1700                                                                                                                                                                                                                                                           |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 6. MIN GS INCPT: 1700 GS ALT AT: WUGUM 1700 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                     |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 57.0 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                 |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 8. MSA FROM: RW34 2100                                                                                                                                                                                                                                                                        |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MAG VAR: 10W EPOCH YEAR: 1985                                                                                                                                                                                                                                                                 |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                      |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                               |        |     |         |                                                                      |     |         | ALTERNATE: N A                                                              |                                 |         | STANDARD @                                                                        |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CATEGORY ==>                                                                                                                                                                                                                                                                                  |        | A   |         |                                                                      | B   |         |                                                                             | C                               |         |                                                                                   | D        |         |                                                                                                                                                                                                                                                                                            | E               |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                               | DH/MDA | VIS | HAT/HAA | DH/MDA                                                               | VIS | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                            | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                     | VIS             | HAT/HAA                      |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                        | 282    | 7/8 | 262     | 282                                                                  | 7/8 | 262     | 282                                                                         | 7/8                             | 262     | 282                                                                               | 7/8      | 262     |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                  | 305    | 7/8 | 285     | 305                                                                  | 7/8 | 285     | 305                                                                         | 7/8                             | 285     | 305                                                                               | 7/8      | 285     |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                      | 460    | 1   | 440     | 460                                                                  | 1   | 440     | 460                                                                         | 1 1/4                           | 440     | 460                                                                               | 1 1/4    | 440     |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                      |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                               | 460    | 1   | 440     | 480                                                                  | 1   | 460     | 660                                                                         | 1 3/4                           | 640     | 780                                                                               | 2 1/2    | 760     |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: NIGHT LANDING: RWY 16 NA.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>(CONTINUED ON PAGE 2) |        |     |         |                                                                      |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                            |                 |                              |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CITY AND STATE<br>CAMBRIDGE, MD                                                                                                                                                                                                                                                               |        |     |         | ELEVATION: 20 TDZE: 20<br>AIRPORT NAME:<br>CAMBRIDGE-DORCHESTER RGNL |     |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 34, ORIG<br>21 JULY 2016 |          |         |                                                                                                                                                                                                                                                                                            |                 | SUP:<br>AMDT: NONE<br>DATED: |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GOFER ON V16-157-213-229 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SBY VORTAC AIRWAY RADIALS 218 CW 012.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALISBURY ALTIMETER SETTING AND INCREASE LPV DA TO 350, LNAV/VNAV DA TO 373 AND ALL VISIBILITIES 1/4 MILE; INCREASE ALL MDA 80 FEET AND LNAV CAT C AND D VISIBILITY 1/8 MILE AND CIRCLING CAT C AND D VISIBILITY 1/4 MILE.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING SALISBURY ALTIMETER SETTING.

QUALITY  
24  
CHECKED

|                                 |                                                             |          |                                 |                                                                                   |            |
|---------------------------------|-------------------------------------------------------------|----------|---------------------------------|-----------------------------------------------------------------------------------|------------|
| CITY AND STATE<br>CAMBRIDGE, MD | ELEVATION: 20<br>AIRPORT NAME:<br>CAMBRIDGE-DORCHESTER RGNL | TDZE: 20 | FACILITY<br>IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 34, ORIG<br>21 JULY 2016 | SUP:       |
|                                 |                                                             |          |                                 |                                                                                   | AMDT: NONE |
|                                 |                                                             |          |                                 |                                                                                   | DATED:     |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KCGE          |
| RUNWAY                                   | RW34          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W34A          |
| LTP/FTP LATITUDE                         | 383203.6950N  |
| LTP/FTP LONGITUDE                        | 0760132.7915W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00304        |
| FPAP LATITUDE                            | 383315.6815N  |
| FPAP LONGITUDE                           | 0760239.8425W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00057.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1384          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

D01B5F62

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K6     |
| LTP ORTHOMETRIC HEIGHT  | +00048 |
| FPAP ORTHOMETRIC HEIGHT | +00048 |

QUALITY  
24  
CHECKED

CITY AND STATE

CAMBRIDGE, MD

ELEVATION: 20

TDZE: 20

AIRPORT NAME:

CAMBRIDGE-DORCHESTER RGNL

 FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, ORIG

21 JULY 2016

SUP:

AMDT:

NONE

DATED:



| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |                       |             |                        |     |                        |            |                  |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|------------|-----------------------|-------------|------------------------|-----|------------------------|------------|------------------|-------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KCGE                                                |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO                  | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE            | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| GOFER                                                               | 010        | GOFER                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
| GOFER                                                               | 020        | PROFS                 | TF          | FO                     | 2.0 | 106.4                  |            |                  |             |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
| GOFER                                                               | 030        | PROFS                 | HF          | FO                     |     | 333.9                  |            |                  | R           |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |
| SBY                                                                 | 010        | SBY                   | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V A                        |
| SBY                                                                 | 020        | PROFS                 | TF          | FB                     | 1.0 | 287.5                  |            |                  |             |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                     | 010        | PROFS                 | IF          | FB                     |     |                        |            |                  |             |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                     | 020        | WUGUM                 | TF          | FB                     | 1.0 | 333.9                  |            |                  |             | RW34          |                | AA 01700                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 030        | RW34                  | TF          | FO                     | 0.3 | 333.9                  |            | 3.00             |             |               |                | AT 00073                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040        |                       | CA          | FB                     |     | 333.9                  |            |                  |             |               |                | AA 00282                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050        | OVAYO                 | DF          | FO                     |     |                        |            |                  |             |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 060        | OVAYO                 | HM          | FO                     |     | 153.7                  |            |                  | R           |               |                | AA 02000                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          |            |                       | LATITUDE    |                        |     | LONGITUDE              |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| SBY                                                                 |            |                       | N382042.00  |                        |     | W0753038.10            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| GOFER                                                               |            |                       | N382507.84  |                        |     | W0761645.30            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| OVAYO                                                               |            |                       | N384143.74  |                        |     | W0761034.50            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| PROFS                                                               |            |                       | N382259.93  |                        |     | W0755307.82            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| WUGUM                                                               |            |                       | N382755.90  |                        |     | W0755742.34            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              |            | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |     | THRESHOLD<br>ELEVATION |            | PROCEDURE<br>TCH |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW34                                                                |            | N383203.70            |             | W0760132.79            |     | 00016                  |            | 57               |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
4  
CHECKED

|                                        |                                                   |                 |                      |                                            |                   |
|----------------------------------------|---------------------------------------------------|-----------------|----------------------|--------------------------------------------|-------------------|
| CITY AND STATE<br><b>CAMBRIDGE, MD</b> | ELEVATION: <b>20</b>                              | TDZE: <b>20</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:              |
|                                        | AIRPORT NAME:<br><b>CAMBRIDGE-DORCHESTER RGNL</b> |                 | <b>RNAV</b>          | <b>RNAV (GPS) RWY 34, ORIG</b>             | AMDT: <b>NONE</b> |
|                                        |                                                   |                 |                      | 21 JULY 2016                               | DATED:            |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State   | Airport                   | Effective Date | Amdt. No. |
|---------------|---------------------------|----------------|-----------|
| CAMBRIDGE, MD | CAMBRIDGE-DORCHESTER RGNL | 21 JULY 2016   | 2         |

**TAKEOFF MINIMUMS:**

RWY 16, STANDARD.  
RWY 34, STANDARD.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 16,** RAILROAD 81 FT FROM DER, 375 FT RIGHT OF CENTERLINE, 40 FT MSL. ROAD 224 FT FROM DER, 397 FT RIGHT OF CENTERLINE, 33 FT MSL. TREE 1558 FT FROM DER, 546 FT LEFT OF CENTERLINE, 102 FT MSL. TREE 1923 FT FROM DER, 298 FT LEFT OF CENTERLINE, 89 FT MSL. TREE 1993 FT FROM DER, 380 FT LEFT OF CENTERLINE, 92 FT MSL. TREE 2062 FT FROM DER, 575 FT LEFT OF CENTERLINE, 96 FT MSL.

**NOTE: RWY 34,** TREE 331 FT FROM DER, 534 FT LEFT OF CENTERLINE, 73 FT MSL. POLE 637 FT FROM DER, 323 FT LEFT OF CENTERLINE, 37 FT AGL/55 FT MSL. TREE 861 FT FROM DER, 329 FT LEFT OF CENTERLINE, 97 FT MSL. TREE 892 FT FROM DER, 340 FT LEFT OF CENTERLINE, 104 FT MSL. TREE 953 FT FROM DER, 755 FT RIGHT OF CENTERLINE, 98 FT MSL. TREE 1151 FT FROM DER, 713 FT RIGHT OF CENTERLINE, 113 FT MSL. TREE 1286 FT FROM DER, 599 FT LEFT OF CENTERLINE, 106 FT MSL. TREE 1517 FT FROM DER, 401 FT RIGHT OF CENTERLINE, 97 FT MSL. TREE 1981 FT FROM DER, 277 FT LEFT OF CENTERLINE, 124 FT MSL. TREE 2178 FT FROM DER, 658 FT LEFT OF CENTERLINE, 116 FT MSL. TREE 2824 FT FROM DER, 9 FT LEFT OF CENTERLINE, 98 FT MSL. TREE 3106 FT FROM DER, 362 FT LEFT OF CENTERLINE, 108 FT MSL. TREE 3178 FT FROM DER, 512 FT RIGHT OF CENTERLINE, 103 FT MSL. TREE 3204 FT FROM DER, 516 FT RIGHT OF CENTERLINE, 109 FT MSL.

**CONTROLLING OBSTACLES:**

QUALITY  
24  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State   | Airport                   | Effective Date | Amdt. No. |
|---------------|---------------------------|----------------|-----------|
| CAMBRIDGE, MD | CAMBRIDGE-DORCHESTER RGNL | 21 JULY 2016   | 2         |

**REMARKS:**

**FLIGHT INSPECTED BY:**

**REQUIRED EFFECTIVE DATE:**

STEPHEN BAUER *Digitally signed by* FICO  
**JULIE A MORGAN**

05/27/2016

ROUTINE

**DEVELOPED BY:** Jun 03, 2016

ANDI JO LAU AJV-5411

2/9/2016

*Digitally signed by*  
**ANDI LAU**

**APPROVED BY:** *Digitally signed by*  
**JULIE A MORGAN**  
MARLON ROBINSON Jun 03, 2016 AJV-5410

Mar 08, 2016

**COORDINATED WITH:**

AOPA, NBAA, ZDC, PXT APPCON, NHK APPCON, APT MGR, SBY FSS.

**CHANGES:**

UPDATED TAKE OFF OBSTACLE NOTES.  
AIRPORT NAME CHANGED FROM CAMBRIDGE-DORCHESTER TO CAMBRIDGE-DORCHESTER RGNL

**REASONS:**

NEW OBSTACLE INFORMATION.  
UPDATED AIRPORT INFORMATION.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----------------------------|----------------------------------------|-------|------------------------------------------------------------------------|--------|---------------------------|----------|----------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|------------------|--|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |                            |                                        |       | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |              |  |                  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |       | TO                         |                                        |       | COURSE AND DISTANCE                                                    |        |                           | ALTITUDE |                |       | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW28<br><br>CLIMB TO 3500 DIRECT LUSIC AND ON TRACK 009.15 TO JURDO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD W, RT, 109.66 INBOUND.<br>CHART FAS OBST: 764 TREE 464124N/0675931W<br>DISTANCE TO THLD FROM 286 HAT: 0.76 NM.<br>CHART VDP AT 1.70 MILES TO RW28*<br>*LNAV ONLY.<br>WAAS CHANNEL # 90212<br>REFERENCE PATH ID: W28A<br>LTP HAE: 120.8 M |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| WUPUP (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       | JETAM (NOPT) (FB)          |                                        |       | 005.91 / 5.00                                                          |        |                           | 3200     |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| OLKEE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       | JETAM (NOPT) (FB)          |                                        |       | 185.87 / 5.00                                                          |        |                           | 3200     |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| JETAM (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |       | LISDE (FB)                 |                                        |       | 275.89 / 6.10                                                          |        |                           | 2200     |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| LISDE (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |       | PESIC/2.50 NM TO RW28 (FB) |                                        |       | 275.89 / 2.71                                                          |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| PESIC/2.50 NM TO RW28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |       | RW28 (MAP) (FO)            |                                        |       | 275.79 / 2.50                                                          |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| RW28 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       | 759 MSL                    |                                        |       | 275.79                                                                 |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD E JETAM, RT, 275.89 INBOUND, 3200 FT. IN LIEU OF PT (IAF)<br>3. FAC: 275.79 FAF: LISDE DIST FAF TO MAP: 5.21 THLD: 5.21<br>4. MIN. ALT: JETAM 3200, LISDE 2200, PESIC/2.50 NM TO RW28 1320*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 2200 GS ALT AT: LISDE OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR<br>8. MSA FROM: _____ |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  | MAG VAR: 20W |  | EPOCH YEAR: 1985 |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          | ALTERNATE: N A |       | STANDARD @                                                                                                                                                                                                                                                                                                                                                                                                                      |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | A     |                            |                                        | B     |                                                                        |        | C                         |          |                | D     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | E   |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DH/MDA | VIS   | HAT/HAA                    | DH/MDA                                 | VIS   | HAT/HAA                                                                | DH/MDA | VIS                       | HAT/HAA  | DH/MDA         | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                                                                         | DH/MDA | VIS | HAT/HAA |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 759    | 1     | 286                        | 759                                    | 1     | 286                                                                    | 759    | 1                         | 286      | 759            | 1     | 286                                                                                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1081   | 2 1/2 | 608                        | 1081                                   | 2 1/2 | 608                                                                    | 1081   | 2 1/2                     | 608      | 1081           | 2 1/2 | 608                                                                                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1060   | 1     | 587                        | 1060                                   | 1     | 587                                                                    | 1060   | 1 3/4                     | 587      | 1060           | 1 3/4 | 587                                                                                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1140   | 1     | 606                        | 1160                                   | 1     | 626                                                                    | 1160   | 1 3/4                     | 626      | 1200           | 2     | 666                                                                                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: VDP AND BARO-VNAV NA WHEN USING HOULTON INTL ALTIMETER SETTING.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HOULTON INTL ALTIMETER SETTING AND<br>(CONTINUED ON PAGE 2)                                                                                                                                          |        |       |                            |                                        |       |                                                                        |        |                           |          |                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |     |         |                                                                                                                                                                                                                                                                                                                                                                      |  |              |  |                  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |       |                            | ELEVATION: 534 TDZE: 473               |       |                                                                        |        | FACILITY IDENTIFIER: RNAV |          |                |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                                                                                          |        |     |         | SUP:                                                                                                                                                                                                                                                                                                                                                                 |  |              |  |                  |  |
| PRESQUE ISLE, ME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |       |                            | AIRPORT NAME:                          |       |                                                                        |        |                           |          |                |       | RNAV (GPS) RWY 28, AMDT 1A                                                                                                                                                                                                                                                                                                                                                                                                      |        |     |         | AMDT: 1                                                                                                                                                                                                                                                                                                                                                              |  |              |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |       |                            | NORTHERN MAINE RGNL ARPT AT PRESQUE IS |       |                                                                        |        |                           |          |                |       | 21 JULY 2016                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         | DATED 07/02/2009                                                                                                                                                                                                                                                                                                                                                     |  |              |  |                  |  |

QUALITY  
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**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**TERMINAL ROUTES, (CONT.):**

| FROM    | TO         | COURSE AND DISTANCE | ALTITUDE |
|---------|------------|---------------------|----------|
| 759 MSL | LUSIC (FB) |                     |          |
| LUSIC   | JURDO (FO) | 009.15 / 6.49       | 3500     |

NOTES, (CONT.):

**INCREASE LPV DA TO 848, LNAV/VNAV DA TO 1170 AND ALL MDA 100 FEET, INCREASE LPV ALL CATS, LNAV CATS C AND D AND CIRCLING CAT C VISIBILITY 1/4 MILE, AND CIRCLING CAT D VISIBILITY 1/2 MILE.**

## TAA

|    | FROM                    | TO                    | ALT  |
|----|-------------------------|-----------------------|------|
| 1. | 186/30 CW 006/30 (NOPT) | 186/10 CW 006/10 (FB) | 3600 |
|    | 186/10 CW 006/10        | JETAM (IF/IAF) (FB)   | 3200 |
| 2. | 006/30 CW 096/30        | WUPUP (IAF) (FB)      | 3400 |
| 3. | 096/30 CW 186/30        | OLKEE (IAF) (FB)      | 3400 |

CITY AND STATE  
PRESQUE ISLE, ME

|                                        |           |
|----------------------------------------|-----------|
| ELEVATION: 534                         | TDZE: 473 |
| AIRPORT NAME:                          |           |
| NORTHERN MAINE RGNL ARPT AT PRESQUE IS |           |

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 28, AMDT 1A  
21 JULY 2016

|        |            |
|--------|------------|
| SUP:   | CHECKED    |
| AMDT:  | 1          |
| DATED: | 07/02/2009 |

QUALITY  
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**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KPQI          |
| RUNWAY                                   | RW28          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W28A          |
| LTP/FTP LATITUDE                         | 464118.0595N  |
| LTP/FTP LONGITUDE                        | 0680139.7570W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01208        |
| FPAP LATITUDE                            | 464056.0400N  |
| FPAP LONGITUDE                           | 0680345.1600W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00045.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0920          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>C6639BFF  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K6     |
| LTP ORTHOMETRIC HEIGHT  | +01442 |
| FPAP ORTHOMETRIC HEIGHT | +01442 |

CITY AND STATE  
PRESQUE ISLE, ME

ELEVATION: 534 TDZE: 473  
AIRPORT NAME:  
NORTHERN MAINE RGNL ARPT AT PRESQUE IS

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 28, AMDT 1A  
21 JULY 2016

SUP: **QUALITY  
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CHECKED**  
AMDT: 1  
DATED: 07/02/2009

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |                       |             |                        |     |                        |            |                  |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
|---------------------------------------------------------------------|------------|-----------------------|-------------|------------------------|-----|------------------------|------------|------------------|-------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33                 |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ARINC SUMMARY - KPQI                                                |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                          | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO                  | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE            | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| JETAM                                                               | 010        | JETAM                 | HF          | FO                     |     | 275.9                  |            |                  | R           |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |
| OLKEE                                                               | 010        | OLKEE                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| OLKEE                                                               | 020        | JETAM                 | TF          | FB                     | 1.0 | 185.9                  |            |                  |             |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| WUPUP                                                               | 010        | WUPUP                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| WUPUP                                                               | 020        | JETAM                 | TF          | FB                     | 1.0 | 005.9                  |            |                  |             |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
|                                                                     | 010        | JETAM                 | IF          | FB                     |     |                        |            |                  |             |               |                | AA 03200                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                     | 020        | LISDE                 | TF          | FB                     | 0.5 | 275.9                  |            |                  |             |               |                | AA 02200                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                     | 021        | PESIC                 | TF          | FB                     | 0.3 | 275.9                  |            | 3.00             |             |               |                | AA 01320 GS 01320                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                     | 030        | RW28                  | TF          | FO                     | 0.3 | 275.8                  |            | 3.00             |             |               |                | AT 00518                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                     | 040        |                       | CA          | FB                     | 1.0 | 275.8                  |            |                  |             |               |                | AA 00759                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                     | 050        | LUSIC                 | DF          | FB                     | 1.0 |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
|                                                                     | 060        | JURDO                 | TF          | FO                     | 1.0 | 009.2                  |            |                  |             |               |                | AA 03500                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                     | 070        | JURDO                 | HM          | FO                     |     | 109.7                  |            |                  | R           |               |                | AA 03500                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                              |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                          |            |                       | LATITUDE    |                        |     | LONGITUDE              |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JETAM                                                               |            |                       | N464404.50  |                        |     | W0674543.75            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| OLKEE                                                               |            |                       | N464855.31  |                        |     | W0674730.24            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| WUPUP                                                               |            |                       | N463913.65  |                        |     | W0674357.58            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| JURDO                                                               |            |                       | N464625.80  |                        |     | W0681028.42            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| LISDE                                                               |            |                       | N464234.94  |                        |     | W0675419.92            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| LUSIC                                                               |            |                       | N464003.77  |                        |     | W0680841.88            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| PESIC                                                               |            |                       | N464155.04  |                        |     | W0675808.58            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                             |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                              |            | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |     | THRESHOLD<br>ELEVATION |            | PROCEDURE<br>TCH |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW28                                                                |            | N464118.07            |             | W0680139.66            |     | 00473                  |            | 45               |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

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|                                           |                                                                    |                  |                      |                                                       |                          |
|-------------------------------------------|--------------------------------------------------------------------|------------------|----------------------|-------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>PRESQUE ISLE, ME</b> | ELEVATION: <b>534</b>                                              | TDZE: <b>473</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:            | SUP:                     |
|                                           | AIRPORT NAME:<br><b>NORTHERN MAINE RGNL ARPT AT<br/>PRESQUE IS</b> |                  | <b>RNAV</b>          | <b>RNAV (GPS) RWY 28, AMDT 1A</b><br><br>21 JULY 2016 | AMDT: <b>1</b>           |
|                                           |                                                                    |                  |                      |                                                       | DATED: <b>07/02/2009</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------|--------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------|--------|-----|---------|--|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                          |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                              |     |                                       |        |     |         |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | TO                       |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |       |                                        |        | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW18<br><br>CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT WUSAP AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 704 TOWER 344856N/0893146W<br>731 AAO 345349N/0893054W.<br>DISTANCE TO THLD FROM 310 HAT: 0.95 NM.<br>WAAS CHANNEL # 58338<br>REFERENCE PATH ID: W18A<br>CHART CIRCLING ICON.<br>CHART OLIVE BRANCH AWOS-3.<br>LTP HAE: 130 M |     |                                       |        |     |         |  |  |
| WUSAP (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | CAVIK (FB)               |         | 181.07 / 8.00                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        | 2300     |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| CAVIK (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | RW18 (MAP) (FO)          |         | 181.07 / 5.47                                                                                                                                                                                                                                                                                                                                                        |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| RW18 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 1000 MSL                 |         | 181.07                                                                                                                                                                                                                                                                                                                                                               |       |                                        |        | 1000     |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| 1000 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | WUSAP (FO)               |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        | 3000     |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD N WUSAP, RT, 181.07 INBOUND, 3000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 181.07 FAF: CAVIK DIST FAF TO MAP: 5.47 THLD: 5.47<br>4. MIN. ALT: WUSAP 3000, CAVIK 2300<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 2300 GS ALT AT: CAVIK 2300 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR<br>8. MSA FROM: _____ |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         | MAG VAR: 2W                                                                                                                                                                                                                                                                                                                                                                                         |     | EPOCH YEAR: 2020                      |        |     |         |  |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                                                      |     | <input checked="" type="checkbox"/> X |        |     |         |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | A                        |         |                                                                                                                                                                                                                                                                                                                                                                      | B     |                                        |        | C        |         |                                                                                                                                                                                                                                                                                                                                                                                                     | D   |                                       |        | E   |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DH/MDA | VIS                      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA                                | DH/MDA | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                              | VIS | HAT/HAA                               | DH/MDA | VIS | HAT/HAA |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 858    | 1 1/8                    | 310     | 858                                                                                                                                                                                                                                                                                                                                                                  | 1 1/8 | 310                                    | 858    | 1 1/8    | 310     |                                                                                                                                                                                                                                                                                                                                                                                                     | NA  |                                       |        |     |         |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 945    | 1 1/2                    | 397     | 945                                                                                                                                                                                                                                                                                                                                                                  | 1 1/2 | 397                                    | 945    | 1 1/2    | 397     |                                                                                                                                                                                                                                                                                                                                                                                                     | NA  |                                       |        |     |         |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1020   | 1                        | 472     | 1020                                                                                                                                                                                                                                                                                                                                                                 | 1     | 472                                    | 1020   | 1 3/8    | 472     |                                                                                                                                                                                                                                                                                                                                                                                                     | NA  |                                       |        |     |         |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1080   | 1                        | 529     | 1100                                                                                                                                                                                                                                                                                                                                                                 | 1     | 549                                    | 1160   | 1 3/4    | 609     |                                                                                                                                                                                                                                                                                                                                                                                                     | NA  |                                       |        |     |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| NOTES:<br><br>CHART NOTE: BARO-VNAV NA.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |        |     |         |  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | ELEVATION: 551 TDZE: 548 |         | FACILITY IDENTIFIER: RNAV                                                                                                                                                                                                                                                                                                                                            |       | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |        |          |         | SUP:                                                                                                                                                                                                                                                                                                                                                                                                |     |                                       |        |     |         |  |  |
| HOLLY SPRINGS, MS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | AIRPORT NAME:            |         | HOLLY SPRINGS-MARSHALL COUNTY                                                                                                                                                                                                                                                                                                                                        |       | RNAV (GPS) RWY 18, ORIG                |        |          |         | AMDT: NONE                                                                                                                                                                                                                                                                                                                                                                                          |     |                                       |        |     |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                          |         |                                                                                                                                                                                                                                                                                                                                                                      |       | 21 JULY 2016                           |        |          |         | DATED                                                                                                                                                                                                                                                                                                                                                                                               |     |                                       |        |     |         |  |  |

QUALITY  
10  
CHECKED



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: USE OLIVE BRANCH ALTIMETER SETTING; WHEN NOT RECEIVED, USE OXFORD ALTIMETER SETTING  
AND INCREASE LPV DA TO 870, LNAV/VNAV DA TO 957 AND ALL MDA 20 FEET; INCREASE LPV ALL CATS  
VISIBILITY 1/8 MILE.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 091/30 CW 271/30 (NOPT) | WUSAP (IF/IAF) (FB) | 3000 |
| 2. | 271/30 CW 091/30        | WUSAP (IF/IAF) (FO) | 3000 |

QUALITY  
10

|                                     |                                                                  |           |                                 |                                                                                   |                     |
|-------------------------------------|------------------------------------------------------------------|-----------|---------------------------------|-----------------------------------------------------------------------------------|---------------------|
| CITY AND STATE<br>HOLLY SPRINGS, MS | ELEVATION: 551<br>AIRPORT NAME:<br>HOLLY SPRINGS-MARSHALL COUNTY | TDZE: 548 | FACILITY<br>IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 18, ORIG<br>21 JULY 2016 | SUP: <b>CHECKED</b> |
|                                     |                                                                  |           |                                 |                                                                                   | AMDT: <b>NONE</b>   |
|                                     |                                                                  |           |                                 |                                                                                   | DATED:              |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | M41           |
| RUNWAY                                   | RW18          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W18A          |
| LTP/FTP LATITUDE                         | 344831.4900N  |
| LTP/FTP LONGITUDE                        | 0893116.3185W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01300        |
| FPAP LATITUDE                            | 344702.2550N  |
| FPAP LONGITUDE                           | 0893114.5630W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1776          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>CC2C9713  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01575 |
| FPAP ORTHOMETRIC HEIGHT | +01575 |

CITY AND STATE  
HOLLY SPRINGS, MS

ELEVATION: 551 TDZE: 548  
AIRPORT NAME:  
HOLLY SPRINGS-MARSHALL COUNTY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 18, ORIG  
21 JULY 2016

SUP: **QUALITY  
10  
CHECKED**  
AMDT: **NONE**  
DATED:

ARINC SUMMARY - M41

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| WUSAP      | 010        | WUSAP       | HF          | FO    |     | 181.1      |            |       | R           |               |                | AA 03000                           |                                       | EE A                       |
|            | 010        | WUSAP       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | CAVIK       | TF          | FB    | 1.0 | 181.1      |            |       |             |               |                | AA 02300                           |                                       | E F                        |
|            | 030        | RW18        | TF          | FO    | 0.3 | 181.1      |            | 3.00  |             |               |                | AT 00557                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 181.1      |            |       |             |               |                | AA 01000                           |                                       | M                          |
|            | 050        | WUSAP       | DF          | FO    |     |            |            |       | R           |               |                | AA 03000                           |                                       | EY                         |
|            | 060        | WUSAP       | HM          | FO    |     | 181.1      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CAVIK      | N345400.44 | W0893122.80 |
| WUSAP      | N350201.15 | W0893132.30 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW18   | N344831.49            | W0893116.32            | 00517                  |                  |

|                                            |                                                       |                  |                      |                                                |             |
|--------------------------------------------|-------------------------------------------------------|------------------|----------------------|------------------------------------------------|-------------|
| CITY AND STATE<br><b>HOLLY SPRINGS, MS</b> | ELEVATION: <b>551</b>                                 | TDZE: <b>548</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:     | SUP:        |
|                                            | AIRPORT NAME:<br><b>HOLLY SPRINGS-MARSHALL COUNTY</b> |                  | <b>RNAV</b>          | <b>RNAV (GPS) RWY 18, ORIG</b><br>21 JULY 2016 | <b>NONE</b> |
|                                            | DATED:                                                |                  |                      |                                                |             |

QUALITY  
10  
CHECKED

|                                                                                                                                                                                                                                                                            |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------|---------------------------------|---------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|--------------------------------|--------|-----|---------|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                         |        |                                                                            |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                   | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                            |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             | MISSED APPROACH              |     |                                |        |     |         |  |
| FROM                                                                                                                                                                                                                                                                       |        | TO                                                                         |         | COURSE AND DISTANCE                                                         |                                 |         | ALTITUDE                                                                          |                                                                                                                                                                                                                                                                                                                                                                      | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW36                                                                                                                                                                                                                                      |                              |     |                                |        |     |         |  |
| MIENS (IF/IAF)                                                                                                                                                                                                                                                             |        | FUSEL (FB)                                                                 |         | 001.07 / 8.00                                                               |                                 |         | 2300                                                                              |                                                                                                                                                                                                                                                                                                                                                                      | CLIMB TO 3000 DIRECT WUSAP AND HOLD.                                                                                                                                                                                                                                        |                              |     |                                |        |     |         |  |
| FUSEL (FAF)                                                                                                                                                                                                                                                                |        | RW36 (MAP) (FO)                                                            |         | 001.07 / 5.37                                                               |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| RW36 (MAP)                                                                                                                                                                                                                                                                 |        | 861 MSL                                                                    |         | 001.07                                                                      |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 861 MSL                                                                                                                                                                                                                                                                    |        | WUSAP (FO)                                                                 |         |                                                                             |                                 |         | 3000                                                                              |                                                                                                                                                                                                                                                                                                                                                                      | ADDITIONAL FLIGHT DATA:<br>HOLD N, RT, 181.07 INBOUND.<br>CHART FAS OBST: 748 TREE 344606N/0893139W<br>DISTANCE TO THLD FROM 310 HAT: 0.85 NM.<br>WAAS CHANNEL # 63238<br>REFERENCE PATH ID: W36A<br>CHART CIRCLING ICON.<br>CHART OLIVE BRANCH AWOS-3.<br>LTP HAE: 140.5 M |                              |     |                                |        |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                       |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             | MAG VAR: 2W EPOCH YEAR: 2020 |     |                                |        |     |         |  |
| 2. HOLD S MIENS, RT, 001.07 INBOUND, 3000 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                          |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 3. FAC: 001.07 FAF: FUSEL DIST FAF TO MAP: 5.37 THLD: 5.37                                                                                                                                                                                                                 |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 4. MIN. ALT: MIENS 3000, FUSEL 2300                                                                                                                                                                                                                                        |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                             |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 6. MIN GS INCPT: 2300 GS ALT AT: FUSEL 2300 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                  |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR                                                                                                                                                                                                                              |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| 8. MSA FROM: _____                                                                                                                                                                                                                                                         |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                   |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                            |        |                                                                            |         |                                                                             |                                 |         | ALTERNATE: N A X                                                                  |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                            |        | A                                                                          |         |                                                                             | B                               |         |                                                                                   | C                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |                              | D   |                                |        | E   |         |  |
|                                                                                                                                                                                                                                                                            | DH/MDA | VIS                                                                        | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                            | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA                                                                                                                                                                                                                                                                     | DH/MDA                       | VIS | HAT/HAA                        | DH/MDA | VIS | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                     | 861    | 1                                                                          | 310     | 861                                                                         | 1                               | 310     | 861                                                                               | 1                                                                                                                                                                                                                                                                                                                                                                    | 310                                                                                                                                                                                                                                                                         |                              | NA  |                                |        |     |         |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                               | 871    | 1 1/8                                                                      | 320     | 871                                                                         | 1 1/8                           | 320     | 871                                                                               | 1 1/8                                                                                                                                                                                                                                                                                                                                                                | 320                                                                                                                                                                                                                                                                         |                              | NA  |                                |        |     |         |  |
| LNAV MDA                                                                                                                                                                                                                                                                   | 1060   | 1                                                                          | 509     | 1060                                                                        | 1                               | 509     | 1060                                                                              | 1 3/8                                                                                                                                                                                                                                                                                                                                                                | 509                                                                                                                                                                                                                                                                         |                              | NA  |                                |        |     |         |  |
|                                                                                                                                                                                                                                                                            |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| CIRCLING                                                                                                                                                                                                                                                                   | 1080   | 1                                                                          | 529     | 1100                                                                        | 1                               | 549     | 1160                                                                              | 1 3/4                                                                                                                                                                                                                                                                                                                                                                | 609                                                                                                                                                                                                                                                                         |                              | NA  |                                |        |     |         |  |
|                                                                                                                                                                                                                                                                            |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
|                                                                                                                                                                                                                                                                            |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| NOTES:<br>CHART NOTE: BARO-VNAV NA.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2) |        |                                                                            |         |                                                                             |                                 |         |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     |                                |        |     |         |  |
| CITY AND STATE<br>HOLLY SPRINGS, MS                                                                                                                                                                                                                                        |        | ELEVATION: 551 TDZE: 551<br>AIRPORT NAME:<br>HOLLY SPRINGS-MARSHALL COUNTY |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 36, ORIG<br>21 JULY 2016 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                              |     | SUP: 4<br>AMDT: NONE<br>DATED: |        |     |         |  |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: USE OLIVE BRANCH ALTIMETER SETTING; WHEN NOT RECEIVED, USE OXFORD ALTIMETER SETTING AND INCREASE LPV DA TO 873, LNAV/VNAV DA TO 883 AND ALL MDA 20 FEET; INCREASE LPV ALL CATS AND LNAV CAT C VISIBILITY 1/8 MILE.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 271/30 CW 091/30 (NOPT) | MIENS (IF/IAF) (FB) | 3000 |
| 2. | 091/30 CW 271/30        | MIENS (IF/IAF) (FO) | 3000 |

CITY AND STATE  
HOLLY SPRINGS, MS

ELEVATION: 551 TDZE: 551  
AIRPORT NAME:  
HOLLY SPRINGS-MARSHALL COUNTY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 36, ORIG  
21 JULY 2016

SUP: **QUALITY**  
4  
AMDT: **CHECKED** NONE  
DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | M41           |
| RUNWAY                                   | RW36          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W36A          |
| LTP/FTP LATITUDE                         | 344759.8280N  |
| LTP/FTP LONGITUDE                        | 0893115.6950W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01405        |
| FPAP LATITUDE                            | 344929.0630N  |
| FPAP LONGITUDE                           | 0893117.4520W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1776          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

883D9674

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01680 |
| FPAP ORTHOMETRIC HEIGHT | +01680 |

CITY AND STATE

HOLLY SPRINGS, MS

ELEVATION: 551

TDZE: 551

AIRPORT NAME:

HOLLY SPRINGS-MARSHALL COUNTY

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, ORIG

21 JULY 2016

SUP:

AMDT:

DATED:

QUALITY

4

NONE

CHECKED

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - M41

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| MIENS      | 010        | MIENS       | HF          | FO    |     | 001.1      |            |       | R           |               |                | AA 03000                           |                                       | EE A                       |
|            | 010        | MIENS       | IF          | FB    |     |            |            |       |             |               |                | AA 03000                           |                                       | E I                        |
|            | 020        | FUSEL       | TF          | FB    | 1.0 | 001.1      |            |       |             |               |                | AA 02300                           |                                       | E F                        |
|            | 030        | RW36        | TF          | FO    | 0.3 | 001.1      |            | 3.00  |             |               |                | AT 00591                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 001.1      |            |       |             |               |                | AA 00861                           |                                       | M                          |
|            | 050        | WUSAP       | DF          | FO    |     |            |            |       |             |               |                | AA 03000                           |                                       | EY                         |
|            | 060        | WUSAP       | HM          | FO    |     | 181.1      |            | R     |             |               |                | AA 03000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| FUSEL      | N344237.40 | W0893109.36 |
| MIENS      | N343436.66 | W0893059.93 |
| WUSAP      | N350201.15 | W0893132.30 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW36   | N344759.83            | W0893115.70            | 00551                  | 40               |

CITY AND STATE  
**HOLLY SPRINGS, MS**

ELEVATION: **551**      **TDZE: 551**  
 AIRPORT NAME:  
**HOLLY SPRINGS-MARSHALL COUNTY**

FACILITY  
 IDENTIFIER:  
  
**RNAV**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**RNAV (GPS) RWY 36, ORIG**  
 21 JULY 2016

SUP: **TO**  
 AMDT: **CHECKED**  
 DATED: **NONE**

|                                                                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------|--------------------|------|-----------------------------|---------------------|----------------------------------------------------------------------------------|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------|-----|-----|---------|--|--|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23                                                                                                                               |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                  |      |                                                                                | TO                 |      |                             | COURSE AND DISTANCE |                                                                                  |       | ALTITUDE |                                                                                                                                                                                                                                                                                                                                                                      | MAP: MAFVE/HLI 2.60 DME FIX                                                                                           |         |     |     |         |  |  |  |  |  |
| HLI VORTAC                                                                                                                                                                                                                                                                                            |      |                                                                                | BRYNT/HLI 8.05 DME |      |                             | 332.03 / 8.05       |                                                                                  |       | 2300     |                                                                                                                                                                                                                                                                                                                                                                      | CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 2300 ON HEADING 010 AND ON HLI VORTAC R-332 TO BRYNT/HLI 8.05 DME AND HOLD. |         |     |     |         |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          | ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 708 TOWER 344957N/0893325W<br>BRYNT TO RW18: 3.01/40.<br>CHART CIRCLING ICON.<br>CHART OLIVE BRANCH AWOS-3.<br>FAC CROSSES RWY C/L EXTENDED 1963 FT FROM THLD.                                                                                                                                                            |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                  |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| 2. HOLD NW BRYNT, LT, 152.03 INBOUND, 2300 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                    |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| 3. FAC 152.03 FAF BRYNT/HLI 8.05 DME                                                                                                                                                                                                                                                                  |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          | DIST FAF TO MAP _____ THLD 5.45                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| 4. MIN. ALT BRYNT 2300                                                                                                                                                                                                                                                                                |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| 8. MSA FROM: HLI VORTAC 2500                                                                                                                                                                                                                                                                          |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          | MAG VAR: 3E EPOCH YEAR:1980                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                              |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       | X       |     |     |         |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                       |      | A                                                                              |                    |      | B                           |                     |                                                                                  | C     |          |                                                                                                                                                                                                                                                                                                                                                                      | D                                                                                                                     |         |     | E   |         |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                       | MDA  | VIS                                                                            | HAT/HAA            | MDA  | VIS                         | HAT/HAA             | MDA                                                                              | VIS   | HAT/HAA  | MDA                                                                                                                                                                                                                                                                                                                                                                  | VIS                                                                                                                   | HAT/HAA | MDA | VIS | HAT/HAA |  |  |  |  |  |
| S-18                                                                                                                                                                                                                                                                                                  | 1020 | 1                                                                              | 472                | 1020 | 1                           | 472                 | 1020                                                                             | 1 3/8 | 472      |                                                                                                                                                                                                                                                                                                                                                                      | NA                                                                                                                    |         |     |     |         |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                              | 1080 | 1                                                                              | 529                | 1100 | 1                           | 549                 | 1160                                                                             | 1 3/4 | 609      |                                                                                                                                                                                                                                                                                                                                                                      | NA                                                                                                                    |         |     |     |         |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                       |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| NOTES:<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HLI VORTAC AIRWAY RADIALS 303 CW 004.<br>CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2) |      |                                                                                |                    |      |                             |                     |                                                                                  |       |          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |         |     |     |         |  |  |  |  |  |
| CITY AND STATE<br>HOLLY SPRINGS, MS                                                                                                                                                                                                                                                                   |      | ELEVATION: 551 TDZE: 548<br>AIRPORT NAME:<br><br>HOLLY SPRINGS-MARSHALL COUNTY |                    |      | FACILITY IDENTIFIER:<br>HLI |                     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>VOR RWY 18, AMDT 7<br><br>21 JULY 2016 |       |          |                                                                                                                                                                                                                                                                                                                                                                      | SUP VOR/DME OR GPS<br>RWY 18<br>AMDT 6A<br>DATE 11/23/2006                                                            |         |     |     |         |  |  |  |  |  |



**VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

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**NOTES, (CONT.):****CHART NOTE: USE OLIVE BRANCH ALTIMETER SETTING; WHEN NOT RECEIVED, USE OXFORD ALTIMETER SETTING****AND INCREASE ALL MDA 20 FEET.****CHART NOTE: DME REQUIRED.**

QUALITY  
10  
CHECKED

CITY AND STATE

HOLLY SPRINGS, MS

ELEVATION: 551

TDZE: 548

AIRPORT NAME:

HOLLY SPRINGS-MARSHALL COUNTY

FACILITY  
IDENTIFIER:

HLI

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 18, AMDT 7

21 JULY 2016

SUP: VOR/DME OR GPS  
RWY 18

AMDT: 6A

DATED: 11/23/2006

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|----------------------------------------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|--------|------------------|---------|--|--|
| <b>RNAV - STANDARD</b><br><b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | TO                         |         |                                                                                                                                                                                                                                                                                                                                                                      | COURSE AND DISTANCE       |         |                                        | ALTITUDE |          | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW12<br><br>CLIMB TO 5000 DIRECT EKOYU AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD SE, RT, 305.55 INBOUND.<br>CHART FAS OBST: 2889 SIGN 465551N/1040038W<br>3040 AAO 465920N/1040438W<br>DISTANCE TO THLD FROM 250 HAT: 0.66 NM.<br>CHART VDP AT 1.12 MILES TO RW12*<br>*LNAV ONLY.<br>WAAS CHANNEL # 61338<br>REFERENCE PATH ID: W12A<br>CHART CIRCLING ICON.<br>LTP HAE: 824 M |     |            |        |                  |         |  |  |
| EKENE (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | CADOM (FB)                 |         |                                                                                                                                                                                                                                                                                                                                                                      | 125.32 / 3.50             |         |                                        | 4400     |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| CADOM (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | DEVGE/1.90 NM TO RW12 (FB) |         |                                                                                                                                                                                                                                                                                                                                                                      | 125.36 / 3.14             |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| DEVGE/1.90 NM TO RW12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | RW12 (MAP) (FO)            |         |                                                                                                                                                                                                                                                                                                                                                                      | 125.36 / 1.90             |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| RW12 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 3006 MSL                   |         |                                                                                                                                                                                                                                                                                                                                                                      | 125.36                    |         |                                        | 5000     |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| 3006 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | EKOYU (FO)                 |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD NW EKENE, RT, 125.32 INBOUND, 4700 FT. IN LIEU OF PT (IAF)<br>3. FAC: 125.36 FAF: CADOM DIST FAF TO MAP: 5.04 THLD: 5.04<br>4. MIN. ALT: EKENE 4700, CADOM 4400, DEVGE/1.90 NM TO RW12 3400*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 4400 GS ALT AT: CADOM 4400 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR<br>8. MSA FROM: _____ |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          | MAG VAR: 8E                                                                                                                                                                                                                                                                                                                                                                                                             |     |            |        | EPOCH YEAR: 2020 |         |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         | ALTERNATE: N A                         |          | STANDARD |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | A                          |         |                                                                                                                                                                                                                                                                                                                                                                      | B                         |         |                                        | C        |          |                                                                                                                                                                                                                                                                                                                                                                                                                         | D   |            |        | E                |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DH/MDA | VIS                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS                       | HAT/HAA | DH/MDA                                 | VIS      | HAT/HAA  | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                  | VIS | HAT/HAA    | DH/MDA | VIS              | HAT/HAA |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3006   | 1                          | 250     | 3006                                                                                                                                                                                                                                                                                                                                                                 | 1                         | 250     |                                        | NA       |          |                                                                                                                                                                                                                                                                                                                                                                                                                         | NA  |            |        |                  |         |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3051   | 1                          | 295     | 3051                                                                                                                                                                                                                                                                                                                                                                 | 1                         | 295     |                                        | NA       |          |                                                                                                                                                                                                                                                                                                                                                                                                                         | NA  |            |        |                  |         |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3140   | 1                          | 384     | 3140                                                                                                                                                                                                                                                                                                                                                                 | 1                         | 384     |                                        | NA       |          |                                                                                                                                                                                                                                                                                                                                                                                                                         | NA  |            |        |                  |         |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3280   | 1                          | 524     | 3300                                                                                                                                                                                                                                                                                                                                                                 | 1                         | 544     |                                        | NA       |          |                                                                                                                                                                                                                                                                                                                                                                                                                         | NA  |            |        |                  |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F).<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         |                                        |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |        |                  |         |  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | ELEVATION: 2756 TDZE: 2756 |         |                                                                                                                                                                                                                                                                                                                                                                      | FACILITY IDENTIFIER: RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     | SUP:       |        |                  |         |  |  |
| BEACH, ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | AIRPORT NAME: BEACH        |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         | RNAV (GPS) RWY 12, ORIG                |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     | AMDT: NONE |        |                  |         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                           |         | 21 JULY 2016                           |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                         |     | DATED      |        |                  |         |  |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 035/30 CW 215/30 (NOPT) | EKENE (IF/IAF) (FB) | 4700 |
| 2. | 215/30 CW 035/30        | EKENE (IF/IAF) (FO) | 4900 |

QUALITY  
25  
CHECKED

|                                 |                            |            |                                     |                                                                                       |      |
|---------------------------------|----------------------------|------------|-------------------------------------|---------------------------------------------------------------------------------------|------|
| CITY AND STATE<br><br>BEACH, ND | ELEVATION: 2756            | TDZE: 2756 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 12, ORIG<br>21 JULY 2016 | SUP: |
|                                 | AIRPORT NAME:<br><br>BEACH | AMDT: NONE |                                     |                                                                                       |      |
|                                 | DATED:                     |            |                                     |                                                                                       |      |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | 20U           |
| RUNWAY                                   | RW12          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W12A          |
| LTP/FTP LATITUDE                         | 465544.8325N  |
| LTP/FTP LONGITUDE                        | 1035917.3840W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +08240        |
| FPAP LATITUDE                            | 465443.5960N  |
| FPAP LONGITUDE                           | 1035743.0025W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1472          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

94A68EB3

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +08400 |
| FPAP ORTHOMETRIC HEIGHT | +08400 |

QUALITY  
25  
CHECKED

CITY AND STATE

BEACH, ND

ELEVATION: 2756

TDZE: 2756

AIRPORT NAME:

BEACH

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 12, ORIG

21 JULY 2016

SUP:

AMDT:

NONE

DATED:

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 20U

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| EKENE      | 010        | EKENE       | HF          | FO    |     | 125.3      |            |       | R           |               |                | AA 04700                           |                                       | EE A                       |
|            | 010        | EKENE       | IF          | FB    |     |            |            |       |             |               |                | AA 04700                           |                                       | E I                        |
|            | 020        | CADOM       | TF          | FB    | 1.0 | 125.3      |            |       |             |               |                | AA 04400                           |                                       | E F                        |
|            | 021        | DEVGE       | TF          | FB    | 0.3 | 125.4      |            | 3.00  |             |               |                | AA 03400 GS 03401                  |                                       | E S                        |
|            | 030        | RW12        | TF          | FO    | 0.3 | 125.4      |            | 3.00  |             |               |                | AT 02796                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 125.4      |            |       |             |               |                | AA 03006                           |                                       | M                          |
|            | 050        | EKOYU       | DF          | FO    |     |            |            |       |             |               |                | AA 05000                           |                                       | EY                         |
|            | 060        | EKOYU       | HM          | FO    |     | 305.6      |            |       | R           |               |                | AA 05000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CADOM      | N465912.36 | W1040437.94 |
| DEVGE      | N465703.15 | W1040118.23 |
| EKENE      | N470136.43 | W1040821.11 |
| EKOYU      | N464922.96 | W1034930.36 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW12   | N465544.83            | W1035917.38            | 02756                  | 40               |

QUALITY  
25  
CHECKED

|                                    |                                          |                         |                                                |                   |
|------------------------------------|------------------------------------------|-------------------------|------------------------------------------------|-------------------|
| CITY AND STATE<br><b>BEACH, ND</b> | ELEVATION: <b>2756</b> <b>TDZE: 2756</b> | FACILITY<br>IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:     | SUP:              |
|                                    | AIRPORT NAME:<br><b>BEACH</b>            | <b>RNAV</b>             | <b>RNAV (GPS) RWY 12, ORIG</b><br>21 JULY 2016 | AMDT: <b>NONE</b> |
|                                    |                                          |                         | DATED:                                         |                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|----------------------------|---------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|---------|------------------|-----|---------|--|
| <b>RNAV - STANDARD</b><br><b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                            |                            |                     |       | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        | MISSED APPROACH |         |                  |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | TO                         |                            | COURSE AND DISTANCE |       |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE       |     | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW30<br><br>CLIMB TO 4700 DIRECT EKENE AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 125.32 INBOUND.<br>CHART FAS OBST: 2932 T-L TWR 465340N/1035721W<br>3200 AAO 465240N/1035258W<br>DISTANCE TO THLD FROM 250 HAT: 0.68 NM.<br>CHART VDP AT 1.27 MILES TO RW30*<br>*LNAV ONLY.<br>WAAS CHANNEL # 66038<br>REFERENCE PATH ID: W30A<br>CHART CIRCLING ICON.<br>LTP HAE: 821.6 M |        |                 |         |                  |     |         |  |
| EKOYU (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | CAXET (FB)                 |                            | 305.55 / 3.50       |       |                                                                                                                                                                                                                                                                                                                                                                      | 4400           |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| CAXET (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | DEKRE/2.20 NM TO RW30 (FB) |                            | 305.51 / 2.86       |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| DEKRE/2.20 NM TO RW30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | RW30 (MAP) (FO)            |                            | 305.51 / 2.20       |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| RW30 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | 3004 MSL                   |                            | 305.51              |       |                                                                                                                                                                                                                                                                                                                                                                      | 4700           |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| 3004 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | EKENE (FO)                 |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD SE EKOYU, RT, 305.55 INBOUND, 5000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 305.51 FAF: CAXET DIST FAF TO MAP: 5.06 THLD: 5.06<br>4. MIN. ALT: EKOYU 5000, CAXET 4400, DEKRE/2.20 NM TO RW30 3480*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 4400 GS ALT AT: CAXET 4400 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR<br>8. MSA FROM: _____ |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        | MAG VAR: 8E     |         | EPOCH YEAR: 2020 |     |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      | ALTERNATE: N A |     | STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                 |         |                  |     |         |  |
| CATEGORY ==>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A      |                            |                            | B                   |       |                                                                                                                                                                                                                                                                                                                                                                      | C              |     |                                                                                                                                                                                                                                                                                                                                                                                                                              | D      |                 |         | E                |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DH/MDA | VIS                        | HAT/HAA                    | DH/MDA              | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA         | VIS | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                                                                      | DH/MDA | VIS             | HAT/HAA | DH/MDA           | VIS | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3004   | 1                          | 250                        | 3004                | 1     | 250                                                                                                                                                                                                                                                                                                                                                                  |                | NA  |                                                                                                                                                                                                                                                                                                                                                                                                                              |        | NA              |         |                  |     |         |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3175   | 1 1/2                      | 421                        | 3175                | 1 1/2 | 421                                                                                                                                                                                                                                                                                                                                                                  |                | NA  |                                                                                                                                                                                                                                                                                                                                                                                                                              |        | NA              |         |                  |     |         |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3180   | 1                          | 426                        | 3180                | 1     | 426                                                                                                                                                                                                                                                                                                                                                                  |                | NA  |                                                                                                                                                                                                                                                                                                                                                                                                                              |        | NA              |         |                  |     |         |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3280   | 1                          | 524                        | 3300                | 1     | 544                                                                                                                                                                                                                                                                                                                                                                  |                | NA  |                                                                                                                                                                                                                                                                                                                                                                                                                              |        | NA              |         |                  |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F).<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).                                                                                                                                                                                                                        |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         |                  |     |         |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                            | ELEVATION: 2756 TDZE: 2754 |                     |       | FACILITY IDENTIFIER: RNAV                                                                                                                                                                                                                                                                                                                                            |                |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                                                                                       |        |                 |         | SUP:             |     |         |  |
| BEACH, ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                            | AIRPORT NAME: BEACH        |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     | RNAV (GPS) RWY 30, ORIG<br>21 JULY 2016                                                                                                                                                                                                                                                                                                                                                                                      |        |                 |         | AMDT: NONE       |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                            |                            |                     |       |                                                                                                                                                                                                                                                                                                                                                                      |                |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                 |         | DATED            |     |         |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 216/30 CW 036/30 (NOPT) | EKOYU (IF/IAF) (FB) | 5000 |
| 2. | 036/30 CW 216/30        | EKOYU (IF/IAF) (FO) | 5000 |

QUALITY  
25  
CHECKED

CITY AND STATE

BEACH, ND

ELEVATION: 2756

TDZE: 2754

AIRPORT NAME:

BEACH

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, ORIG

21 JULY 2016

SUP:

AMDT: NONE

DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | 20U           |
| RUNWAY                                   | RW30          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30A          |
| LTP/FTP LATITUDE                         | 465516.3345N  |
| LTP/FTP LONGITUDE                        | 1035833.4490W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +08216        |
| FPAP LATITUDE                            | 465617.5615N  |
| FPAP LONGITUDE                           | 1040007.8610W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1472          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

7016EE59

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +08377 |
| FPAP ORTHOMETRIC HEIGHT | +08377 |

QUALITY  
25  
CHECKED

CITY AND STATE

BEACH, ND

ELEVATION: 2756

TDZE: 2754

AIRPORT NAME:

BEACH

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, ORIG

21 JULY 2016

SUP:

AMDT:

NONE

DATED:



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 20U

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| EKOYU      | 010        | EKOYU       | HF          | FO    |     | 305.6      |            |       | R           |               |                | AA 05000                           |                                       | EE A                       |
|            | 010        | EKOYU       | IF          | FB    |     |            |            |       |             |               |                | AA 05000                           |                                       | E I                        |
|            | 020        | CAXET       | TF          | FB    | 1.0 | 305.6      |            |       |             |               |                | AA 04400                           |                                       | E F                        |
|            | 021        | DEKRE       | TF          | FB    | 0.3 | 305.5      |            | 3.00  |             |               |                | AA 03480 GS 03489                  |                                       | E S                        |
|            | 030        | RW30        | TF          | FO    | 0.3 | 305.5      |            | 3.00  |             |               |                | AT 02788                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 305.5      |            |       |             |               |                | AA 03004                           |                                       | M                          |
|            | 050        | EKENE       | DF          | FO    |     |            |            |       |             |               |                | AA 04700                           |                                       | EY                         |
|            | 060        | EKENE       | HM          | FO    |     | 125.3      |            |       | R           |               |                | AA 04700                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CAXET      | N465147.53 | W1035312.17 |
| DEKRE      | N465345.59 | W1035613.69 |
| EKENE      | N470136.43 | W1040821.11 |
| EKOYU      | N464922.96 | W1034930.36 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW30   | N465516.33            | W1035833.45            | 02748                  | 40               |

QUALITY  
25  
CHECKED

|                                    |                                          |                         |                                                |                   |
|------------------------------------|------------------------------------------|-------------------------|------------------------------------------------|-------------------|
| CITY AND STATE<br><b>BEACH, ND</b> | ELEVATION: <b>2756</b> <b>TDZE: 2754</b> | FACILITY<br>IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:     | SUP:              |
|                                    | AIRPORT NAME:<br><b>BEACH</b>            | <b>RNAV</b>             | <b>RNAV (GPS) RWY 30, ORIG</b><br>21 JULY 2016 | AMDT: <b>NONE</b> |
|                                    |                                          |                         | DATED:                                         |                   |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport | Effective Date | Amdt. No. |
|-------------|---------|----------------|-----------|
| BEACH, ND   | BEACH   | 21 JULY 2016   | ORIG      |

**TAKEOFF MINIMUMS:**

RWY 12, 30: STANDARD.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 12: CLIMB HEADING 125.43 TO 4000 BEFORE TURNING LEFT.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 12: AIRFIELD LT 9 FT FROM DER, 27 FT RIGHT OF CENTERLINE, 2749 FT MSL. VEHICLES ON ROAD BEGINNING 39 FT FROM DER, 371 FT RIGHT OF CENTERLINE, UP TO 2764 FT MSL. TERRAIN 95 FT FROM DER, 416 FT LEFT OF CENTERLINE, 2751 FT MSL. VEHICLES ON ROAD BEGINNING 444 FT FROM DER, 379 FT RIGHT OF CENTERLINE, UP TO 2766 FT MSL. VEHICLE ON ROAD 1230 FT FROM DER, 182 FT LEFT OF CENTERLINE, 2780 FT MSL. VEHICLE ON ROAD 1237 FT FROM DER, 198 FT LEFT OF CENTERLINE, 2781 FT MSL. VEHICLE ON ROAD 1276 FT FROM DER, 226 FT LEFT OF CENTERLINE, 2782 FT MSL. VEHICLES ON ROAD BEGINNING 1326 FT FROM DER, 273 FT LEFT OF CENTERLINE, UP TO 2785 FT MSL. VEHICLE ON ROAD 1474 FT FROM DER, 418 FT LEFT OF CENTERLINE, 2786 FT MSL. VEHICLES ON ROAD 1652 FT FROM DER, 586 FT LEFT OF CENTERLINE, 2790 FT MSL. VEHICLES ON ROAD, TREE, AND BUILDING BEGINNING 1671 FT FROM DER, 664 FT LEFT OF CENTERLINE, UP TO 2808 FT MSL.

NOTE: RWY 30: AIRFIELD LT BEGINNING 10 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 1 FT AGL/2757 FT MSL.

**CONTROLLING OBSTACLES:**

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 12: 3643 FT MSL TOWER 465235.00N/1035051.00W, 3711 FT MSL TOWER 465237.91N/1035027.20W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport | Effective Date | Amdt. No. |
|-------------|---------|----------------|-----------|
| BEACH, ND   | BEACH   | 21 JULY 2016   | ORIG      |

**REMARKS:**

**FLIGHT INSPECTED BY:**

TONY BAMSEY

*Digitally signed by*  
**THOMAS L KIRKPATRICK**  
Jun 13, 2016

03/16/2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

*Digitally signed by*  
STEVEN NELSON **STEVEN NELSON** AJV-5422  
Dec 23, 2015

12/23/2015

**APPROVED BY:**

GEORGE GONZALEZ,  
MANAGER

AJV-5420

*Digitally signed by*  
**THOMAS L KIRKPATRICK**  
Jun 13, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZLC ARTCC, AMGR.

**CHANGES:**

ORIGINAL.

**REASONS:**

IAW 8260.46E.





US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PROFILE NOTE: DESCENT ANGLE NA.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

| TAA | FROM                    | TO                  | ALT  |
|-----|-------------------------|---------------------|------|
| 1.  | 105/30 CW 245/30 (NOPT) | UJILE (IF/IAF) (FB) | 3900 |
| 2.  | 245/30 CW 355/30        | YOKRU (IAF) (FB)    | 4100 |
| 3.  | 355/30 CW 105/30        | VOKHY (IAF) (FB)    | 4200 |

QUALITY  
22  
CHECKED

CITY AND STATE

HORNELL, NY

ELEVATION: 1219

TDZE: 1213

AIRPORT NAME:

HORNELL MUNI

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, ORIG-A

21 JULY 2016

SUP:

AMDT: ORIG

DATED: 05/31/2012

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KHTF          |
| RUNWAY                                   | RW18          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W18A          |
| LTP/FTP LATITUDE                         | 422314.7175N  |
| LTP/FTP LONGITUDE                        | 0774102.8500W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +03369        |
| FPAP LATITUDE                            | 422148.9100N  |
| FPAP LONGITUDE                           | 0774030.2200W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00000.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 00.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1376          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 0.0           |

|                      |          |
|----------------------|----------|
| <u>CRC REMAINDER</u> | FE5C103D |
|----------------------|----------|

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K6     |
| LTP ORTHOMETRIC HEIGHT  | +03697 |
| FPAP ORTHOMETRIC HEIGHT | +03697 |

QUALITY  
22  
CHECKED

CITY AND STATE

HORNELL, NY

ELEVATION: 1219

TDZE: 1213

AIRPORT NAME:

HORNELL MUNI

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, ORIG-A

21 JULY 2016

SUP:

AMDT: ORIG

DATED: 05/31/2012

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY  
22  
CHECKED

Page 4 of 5 Pages

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |            |           |             |      |              |      |             | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                |          |          |       |
|---------------------------------------------------------------------|------------|-----------|-------------|------|--------------|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------|-------|
| RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE                   |            |           |             |      |              |      |             |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
| FLIGHT STANDARDS SERVICES - FAR PART 97.33                          |            |           |             |      |              |      |             |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
| ARINC SUMMARY - 424-18 - RNAV (GPS)                                 |            |           |             |      |              |      |             |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
| ROUTES                                                              | TRANSITION | FIX       | SEQ         | USE  | PATH         | TURN | FO/FB       | RNP                                                                                                                                                                                                                                                                                                                                                                  | MAG (TRUE)     | DISTANCE | ALTITUDE | SPEED |
|                                                                     | UJILE      | UJILE     | 010         | IAF  | HF           | R    | FO          |                                                                                                                                                                                                                                                                                                                                                                      | 175.2 (164.2T) | 004.0    | AA 03900 |       |
|                                                                     | VOKHY      | VOKHY     | 010         | IAF  | IF           |      | FB          |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
|                                                                     | VOKHY      | UJILE     | 020         |      | TF           |      | FB          | 1.0                                                                                                                                                                                                                                                                                                                                                                  | 105.1 (094.1T) | 008.8    | AA 03900 |       |
|                                                                     | YOKRU      | YOKRU     | 010         | IAF  | IF           |      | FB          |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
|                                                                     | YOKRU      | UJILE     | 020         |      | TF           |      | FB          | 1.0                                                                                                                                                                                                                                                                                                                                                                  | 245.3 (234.3T) | 008.8    | AA 03900 |       |
|                                                                     |            | UJILE     | 010         | FACF | IF           |      | FB          |                                                                                                                                                                                                                                                                                                                                                                      |                |          | AA 03900 |       |
|                                                                     |            | REGSE     | 020         | FAF  | TF           |      | FB          | 0.5                                                                                                                                                                                                                                                                                                                                                                  | 175.2 (164.2T) | 006.9    | AA 02900 |       |
|                                                                     |            | JASAR     | 021         | SDF  | TF           |      | FB          | 0.3                                                                                                                                                                                                                                                                                                                                                                  | 175.2 (164.2T) | 001.4    | AA 02460 |       |
|                                                                     |            | RW18      | 030         | MAP  | TF           |      | FO          | 0.3                                                                                                                                                                                                                                                                                                                                                                  | 175.2 (164.2T) | 003.8    | AT 02240 |       |
| MISSED APPROACH                                                     |            | FIX       | SEQ         | USE  | PATH         | TURN | FO/FB       | RNP                                                                                                                                                                                                                                                                                                                                                                  | MAG (TRUE)     | DISTANCE | ALTITUDE | SPEED |
|                                                                     |            |           | 040         |      | CA           |      | FB          |                                                                                                                                                                                                                                                                                                                                                                      | 175.2 (164.2T) |          | AA 01620 |       |
|                                                                     |            | FEKBO     | 050         |      | DF           |      | FO          |                                                                                                                                                                                                                                                                                                                                                                      |                |          | AA 04200 |       |
|                                                                     |            | FEKBO     | 060         |      | HM           | R    | FO          |                                                                                                                                                                                                                                                                                                                                                                      | 355.3 (344.3T) | 005.0    | AA 04200 |       |
| POINT DATA                                                          |            | WAYPOINT  | LAT IN SECS |      | LONG IN SECS |      | LAT IN MINS |                                                                                                                                                                                                                                                                                                                                                                      | LONG IN MINS   |          |          |       |
|                                                                     |            | FEKBO     | N420738.84  |      | W0773508.25  |      | N4207.647   |                                                                                                                                                                                                                                                                                                                                                                      | W07735.138     |          |          |       |
|                                                                     |            | JASAR     | N422654.21  |      | W0774226.43  |      | N4226.904   |                                                                                                                                                                                                                                                                                                                                                                      | W07742.441     |          |          |       |
|                                                                     |            | REGSE     | N422813.44  |      | W0774256.65  |      | N4228.224   |                                                                                                                                                                                                                                                                                                                                                                      | W07742.944     |          |          |       |
|                                                                     |            | UJILE     | N423453.12  |      | W0774529.39  |      | N4234.885   |                                                                                                                                                                                                                                                                                                                                                                      | W07745.490     |          |          |       |
|                                                                     |            | VOKHY     | N423531.46  |      | W0775722.27  |      | N4235.524   |                                                                                                                                                                                                                                                                                                                                                                      | W07757.371     |          |          |       |
|                                                                     |            | YOKRU     | N424001.44  |      | W0773548.71  |      | N4240.024   |                                                                                                                                                                                                                                                                                                                                                                      | W07735.812     |          |          |       |
|                                                                     |            | RW18      | N422314.72  |      | W0774102.85  |      | N4223.245   |                                                                                                                                                                                                                                                                                                                                                                      | W07741.048     |          |          |       |
| RUNWAY DATA                                                         |            |           | THRESHOLD   |      |              |      |             |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
|                                                                     | RWY        | ELEVATION |             | TCH  |              |      |             |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |
|                                                                     | RW18       | 01213     |             | 50   |              |      |             |                                                                                                                                                                                                                                                                                                                                                                      |                |          |          |       |



|                                      |                                      |                   |                      |                                            |                          |
|--------------------------------------|--------------------------------------|-------------------|----------------------|--------------------------------------------|--------------------------|
| CITY AND STATE<br><b>HORNELL, NY</b> | ELEVATION: <b>1219</b>               | TDZE: <b>1213</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:                     |
|                                      | AIRPORT NAME:<br><b>HORNELL MUNI</b> |                   | <b>RNAV</b>          | <b>RNAV (GPS) RWY 18, ORIG-A</b>           | AMDT: <b>ORIG</b>        |
|                                      |                                      |                   |                      | 21 JULY 2016                               | DATED: <b>05/31/2012</b> |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|---------|--------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|--------|-----|---------|-------------|--|------------------|--|
| <b>ILS - STANDARD</b><br><b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.29</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                  |        |     |         |             |  |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | TO                         |         |        | COURSE AND DISTANCE        |         |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE |                 | <b>ILS: DA</b><br><b>LOC: 5.28 MILES AFTER GARFY LOM</b><br><br><b>CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT GARFY LOM AND HOLD, OR AS DIRECTED BY ATC.</b><br><br><b>ALTERNATE MA: CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 205 AND ON ODG VOR/DME R-176 AND I-EIU SOUTH COURSE TO GARFY/ODG 5.92 DME AND HOLD. (DME REQUIRED).</b><br><br><b>ADDITIONAL FLIGHT DATA:</b><br><b>HOLD S, RT, 355.02 INBOUND.</b><br><b>CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S GARFY LOM/ODG 5.92 DME, RT, 355.02 INBOUND.</b><br><b>FAS OBST: 1330 AAO 361716N/0974812W</b><br><b>CHART ALERT AREA A-562A.</b><br><b>CHART ODG R-087 AT PODDS.</b><br><b>CHART IFI R-025 AT PODDS.</b><br><b>CHART CIRCLING ICON.</b> |                 |                  |        |     |         |             |  |                  |  |
| ANY VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | GARFY LOM/ODG 5.92 DME     |         |        | 153.80 / 56.05             |         |                                                                                                                                                                                                                                                                                                                                                                      | 3100     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| PER VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | GARFY LOM/ODG 5.92 DME     |         |        | 221.38 / 41.58             |         |                                                                                                                                                                                                                                                                                                                                                                      | 3100     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| ODG VOR/DME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | GARFY LOM/ODG 5.92 DME     |         |        | 173.22 / 5.92              |         |                                                                                                                                                                                                                                                                                                                                                                      | 3100     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| IFI VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | KJACK INT                  |         |        | 020.67 / 20.90             |         |                                                                                                                                                                                                                                                                                                                                                                      | 3600     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| IRW VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | KJACK INT                  |         |        | 341.86 / 45.77             |         |                                                                                                                                                                                                                                                                                                                                                                      | 3600     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| PER VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | PODDSD/ODG 12.00 DME       |         |        | 212.35 / 29.79             |         |                                                                                                                                                                                                                                                                                                                                                                      | 3600     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| KJACK INT (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | YOBUL/ODG 12.00 DME (NOPT) |         |        | 355.02 / 3.92 (I-EIU)      |         |                                                                                                                                                                                                                                                                                                                                                                      | 3600     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| 1. PT <u>  L  </u> SIDE OF COURSE <u>175.02</u> OUTBOUND <u>3100</u> FT WITHIN <u>10</u> MILES OF <u>  GARFY LOM  </u> (IAF)<br>2. _____<br>3. FAC: <u>355.02</u> FAF: <u>GARFY LOM/ODG 5.92 DME</u> DIST FAF TO MAP: <u>5.28</u> THLD: <u>5.28</u><br>4. MIN. ALT: <u>GARFY LOM/ODG 5.92 DME 3000</u><br>5. DIST TO THLD FROM OM: <u>5.28</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>979</u><br>6. MIN GS INCPT: <u>3000</u> GS ALT AT: <u>-</u> OM: <u>2899</u> MM: <u>-</u> IM: <u>-</u><br>7. GS ANGLE: <u>3.00</u> TCH: <u>54.8</u><br>8. MSA FROM: <u>EI LOM 3600</u> |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         | MAG VAR: 5E |  | EPOCH YEAR: 2010 |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |          | ILS: STANDARD # |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LOC: STANDARD @ |                  |        |     |         |             |  |                  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | A                          |         |        | B                          |         |                                                                                                                                                                                                                                                                                                                                                                      | C        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D               |                  |        | E   |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DH/MDA | VIS                        | HAT/HAA | DH/MDA | VIS                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS      | HAT/HAA         | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VIS             | HAT/HAA          | DH/MDA | VIS | HAT/HAA |             |  |                  |  |
| S-ILS 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1347   | 1/2                        | 200     | 1347   | 1/2                        | 200     | 1347                                                                                                                                                                                                                                                                                                                                                                 | 1/2      | 200             | 1347                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1/2             | 200              |        |     |         |             |  |                  |  |
| S-LOC 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1580   | 1/2                        | 433     | 1580   | 1/2                        | 433     | 1580                                                                                                                                                                                                                                                                                                                                                                 | 3/4      | 433             | 1580                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3/4             | 433              |        |     |         |             |  |                  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1760   | 1                          | 593     | 1760   | 1                          | 593     | 1820                                                                                                                                                                                                                                                                                                                                                                 | 1 3/4    | 653             | 1880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 1/4           | 713              |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| NOTES:<br>CHART NOTE: ADF REQUIRED.<br>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>CHART NOTE: DME FROM ODG VOR/DME. SIMULTANEOUS RECEPTION OF I-EIU AND ODG VOR/DME REQUIRED.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GUTHRIE ALTIMETER SETTING: INCREASE DA<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                |        |                            |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |        |     |         |             |  |                  |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | ELEVATION: 1167 TDZE: 1147 |         |        | FACILITY IDENTIFIER: I-EIU |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:                                                                                                                                                                                                                                                                                                                               |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | SUP:             |        |     |         |             |  |                  |  |
| ENID, OK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | AIRPORT NAME:              |         |        |                            |         | ILS OR LOC RWY 35, AMDT 6, 7/21/2016                                                                                                                                                                                                                                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | AMDT: 5C         |        |     |         |             |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | ENID WOODRING RGNL         |         |        |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | DATED 03/06/2014 |        |     |         |             |  |                  |  |

 QUALITY  
2  
CHECKED

## US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## TERMINAL ROUTES, (CONT.):

| FROM                            | TO                         | COURSE AND DISTANCE        | ALTITUDE |
|---------------------------------|----------------------------|----------------------------|----------|
| PODDS/ODG 12.00 DME CW<br>(IAF) | YOBUL/ODG 12.00 DME (NOPT) | 12.00 DME ARC (ODG LR-163) | 3600     |
| YOBUL/ODG 12.00 DME (IF)        | GARFY LOM/ODG 5.92 DME     | 355.02 / 6.08              | 3000     |

## NOTES, (CONT.):

TO 1445 FEET; INCREASE ALL MDA 100 FEET, AND S-LOC VISIBILITY CAT C AND D 1/4 MILE AND CIRCLING  
CAT C AND D VISIBILITY 1/2 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING GUTHRIE ALTIMETER SETTING, INCREASE S-ILS 35 ALL  
CATS VISIBILITY TO 1 MILE.

QUALITY  
2  
CHECKED

CITY AND STATE

ENID, OK

ELEVATION: 1167

TDZE: 1147

AIRPORT NAME:

ENID WOODRING RGNL

FACILITY  
IDENTIFIER:

I-EIU

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 35, AMDT 6, 7/21/2016

SUP:

AMDT: 5C

DATED: 03/06/2014

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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QUALITY  
2  
CHECKED

CITY AND STATE  
ENID, OK

ELEVATION: 1167 TDZE: 1147  
AIRPORT NAME:  
ENID WOODRING RGNL

FACILITY  
IDENTIFIER:  
I-EIU

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
ILS OR LOC RWY 35, AMDT 6, 7/21/2016

SUP:  
AMDT: 5C  
DATED: 03/06/2014

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - KWDG

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ANY        | 010        | ANY         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ANY        | 020        | GARFY       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| ANY        | 030        | GARFY       | PI          | FB    |     | 130.0      | END        |       | R           |               |                | AA 03100                           |                                       | EE A                       |
| IFI        | 010        | IFI         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| IFI        | 020        | KJACK       | TF          | FB    |     |            |            |       |             |               |                | AA 03600                           |                                       | E A                        |
| IFI        | 030        | YOBUL       | CF          | FB    |     | 355.0      | IEIU       |       |             |               |                | AA 03600                           |                                       | EE B                       |
| IRW        | 010        | IRW         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| IRW        | 020        | KJACK       | TF          | FB    |     |            |            |       |             |               |                | AA 03600                           |                                       | E A                        |
| IRW        | 030        | YOBUL       | CF          | FB    |     | 355.0      | IEIU       |       |             |               |                | AA 03600                           |                                       | EE B                       |
| ODG        | 010        | ODG         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ODG        | 020        | GARFY       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| ODG        | 030        | GARFY       | PI          | FB    |     | 130.0      | END        |       | R           |               |                | AA 03100                           |                                       | EE A                       |
| PER1       | 010        | PER         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| PER1       | 020        | PODDS       | TF          | FB    |     |            | ODG        |       |             |               |                | AA 03600                           |                                       | E A                        |
| PER1       | 030        | YOBUL       | AF          | FB    |     | 087.0      | ODG        |       | R           |               |                | AA 03600                           |                                       | EE B                       |
| PER2       | 010        | PER         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| PER2       | 020        | GARFY       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| PER2       | 030        | GARFY       | PI          | FB    |     | 130.0      | END        |       | R           |               |                | AA 03100                           |                                       | EE A                       |
|            | 010        | YOBUL       | IF          | FB    |     |            | IEIU       |       |             |               |                | AA 03600 GI 03000                  |                                       | E I                        |
|            | 020        | GARFY       | CF          | FB    |     | 355.0      | IEIU       | 3.00  |             | EI            |                | GI 03000 GS 02899                  |                                       | E F                        |
|            | 030        | RW35        | CF          | FO    |     | 355.0      | IEIU       | 3.00  |             |               |                | AT 01192                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 355.0      |            |       |             |               |                | AA 02500                           |                                       | M                          |
|            | 050        | EI          | DF          | FO    |     |            |            |       | R           |               |                | AA 03000                           |                                       | NY                         |
|            | 060        | EI          | HM          | FO    |     | 355.0      |            |       | R           |               |                | AA 03000                           |                                       | NE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ANY        | N370932.33 | W0981014.79 |
| END        | N362041.90 | W0975506.08 |
| IFI        | N354818.96 | W0980014.10 |
| IRW        | N352130.95 | W0973633.22 |
| ODG        | N362225.57 | W0974717.23 |
| PER        | N364447.51 | W0970936.56 |
| GARFY      | N361630.06 | W0974728.05 |
| KJACK      | N360629.23 | W0974728.10 |
| PODDS      | N362121.76 | W0973229.42 |

QUALITY  
15  
CHECKED

CITY AND STATE  
ENID, OKELEVATION: 1167 TDZE: 1147  
AIRPORT NAME:  
ENID WOODRING RGNLFACILITY  
IDENTIFIER:  
I-EIUPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 35, AMDT 6, 7/21/2016SUP:  
AMDT: 5C  
DATED: 03/06/2014

| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION |                       |                                                                   |                                      | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                           |
|---------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| ILS STANDARD INSTRUMENT APPROACH PROCEDURE                          |                       |                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29                 |                       |                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| YOBUL                                                               | N361024.56            | W0974728.05                                                       |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| IEIU (LOC)                                                          | N362316.47            | W0974727.88                                                       |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| EI                                                                  | N361630.06            | W0974726.74                                                       |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| RUNWAYS                                                             |                       |                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| RUNWAY                                                              | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                            | THRESHOLD<br>ELEVATION               | PROCEDURE<br>TCH                                                                                                                                                                                                                                                                                                                                                     |                                           |
| RW35                                                                | N362147.39            | W0974727.91                                                       | 01137                                | 54.8                                                                                                                                                                                                                                                                                                                                                                 |                                           |
|                                                                     |                       |                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| CITY AND STATE<br>ENID, OK                                          |                       | ELEVATION: 1167 TDZE: 1147<br>AIRPORT NAME:<br>ENID WOODRING RGNL | FACILITY<br>IDENTIFIER:<br><br>I-EIU | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><br>ILS OR LOC RWY 35, AMDT 6, 7/21/2016                                                                                                                                                                                                                                                                               | SUP:<br><br>AMDT: 5C<br>DATED: 03/06/2014 |

QUALITY  
15  
CHECKED

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - KWDG

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| ANY        | 010        | ANY         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ANY        | 020        | GARFY       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| ANY        | 030        | GARFY       | PI          | FB    |     | 130.0      | END        |       | R           |               |                | AA 03100                           |                                       | EE A                       |
| IFI        | 010        | IFI         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| IFI        | 020        | KJACK       | TF          | FB    |     |            |            |       |             |               |                | AA 03600                           |                                       | E A                        |
| IFI        | 030        | YOBUL       | CF          | FB    |     | 355.0      | IEIU       |       |             |               |                | AA 03600                           |                                       | EE B                       |
| IRW        | 010        | IRW         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| IRW        | 020        | KJACK       | TF          | FB    |     |            |            |       |             |               |                | AA 03600                           |                                       | E A                        |
| IRW        | 030        | YOBUL       | CF          | FB    |     | 355.0      | IEIU       |       |             |               |                | AA 03600                           |                                       | EE B                       |
| ODG        | 010        | ODG         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ODG        | 020        | GARFY       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| ODG        | 030        | GARFY       | PI          | FB    |     | 130.0      | END        |       | R           |               |                | AA 03100                           |                                       | EE A                       |
| PER1       | 010        | PER         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| PER1       | 020        | PODDS       | TF          | FB    |     |            | ODG        |       |             |               |                | AA 03600                           |                                       | E A                        |
| PER1       | 030        | YOBUL       | AF          | FB    |     | 087.0      | ODG        |       | R           |               |                | AA 03600                           |                                       | EE B                       |
| PER2       | 010        | PER         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| PER2       | 020        | GARFY       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| PER2       | 030        | GARFY       | PI          | FB    |     | 130.0      | END        |       | R           |               |                | AA 03100                           |                                       | EE A                       |
|            | 010        | YOBUL       | IF          | FB    |     |            | IEIU       |       |             |               |                | AA 03600                           |                                       | E I                        |
|            | 020        | GARFY       | CF          | FB    |     | 355.0      | IEIU       |       |             | EI            |                | AA 03000                           |                                       | E F                        |
|            | 030        | RW35        | CF          | FO    |     | 355.0      | IEIU       | 3.23  |             |               |                | AT 01192                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 355.0      |            |       |             |               |                | AA 02500                           |                                       | M                          |
|            | 050        | EI          | DF          | FO    |     |            |            |       | R           |               |                | AA 03000                           |                                       | NY                         |
|            | 060        | EI          | HM          | FO    |     | 355.0      |            |       | R           |               |                | AA 03000                           |                                       | NE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ANY        | N370932.33 | W0981014.79 |
| END        | N362041.90 | W0975506.08 |
| IFI        | N354818.96 | W0980014.10 |
| IRW        | N352130.95 | W0973633.22 |
| ODG        | N362225.57 | W0974717.23 |
| PER        | N364447.51 | W0970936.56 |
| GARFY      | N361630.06 | W0974728.05 |
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ILS OR LOC RWY 35, AMDT 6, 7/21/2016SUP:  
AMDT: 5C  
DATED: 03/06/2014

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                                                                                                                        |                        | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|-----------------------|------------------------|------------------------|------------------|------|------------|-------------|-------------|------|--|--|----|------------|-------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--------|-----------------------|------------------------|------------------------|------------------|------|------------|-------------|-------|------|
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">YOBUL</td> <td style="width: 20%;">N361024.56</td> <td style="width: 20%;">W0974728.05</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>IEIU (LOC)</td> <td>N362316.47</td> <td>W0974727.88</td> <td></td> <td></td> <td></td> </tr> <tr> <td>EI</td> <td>N361630.06</td> <td>W0974726.74</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6" style="padding-top: 20px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">RUNWAYS</div> <div style="width: 85%;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">RUNWAY</th> <th style="width: 15%;">THRESHOLD<br/>LATITUDE</th> <th style="width: 15%;">THRESHOLD<br/>LONGITUDE</th> <th style="width: 15%;">THRESHOLD<br/>ELEVATION</th> <th style="width: 40%;">PROCEDURE<br/>TCH</th> </tr> <tr> <td>RW35</td> <td>N362147.39</td> <td>W0974727.91</td> <td>01137</td> <td>54.8</td> </tr> </table> </div> </div> </td> </tr> </table> |                       |                                                                                                                        |                        |                                                                                                                                                                                                                                                                                                                                                                      |  | YOBUL  | N361024.56            | W0974728.05            |                        |                  |      | IEIU (LOC) | N362316.47  | W0974727.88 |      |  |  | EI | N361630.06 | W0974726.74 |  |  |  | <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">RUNWAYS</div> <div style="width: 85%;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">RUNWAY</th> <th style="width: 15%;">THRESHOLD<br/>LATITUDE</th> <th style="width: 15%;">THRESHOLD<br/>LONGITUDE</th> <th style="width: 15%;">THRESHOLD<br/>ELEVATION</th> <th style="width: 40%;">PROCEDURE<br/>TCH</th> </tr> <tr> <td>RW35</td> <td>N362147.39</td> <td>W0974727.91</td> <td>01137</td> <td>54.8</td> </tr> </table> </div> </div> |  |  |  |  |  | RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH | RW35 | N362147.39 | W0974727.91 | 01137 | 54.8 |
| YOBUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N361024.56            | W0974728.05                                                                                                            |                        |                                                                                                                                                                                                                                                                                                                                                                      |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
| IEIU (LOC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | N362316.47            | W0974727.88                                                                                                            |                        |                                                                                                                                                                                                                                                                                                                                                                      |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
| EI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N361630.06            | W0974726.74                                                                                                            |                        |                                                                                                                                                                                                                                                                                                                                                                      |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                                                                 | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                                                                                                                                                                                                                                                                                                                                                     |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
| RW35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N362147.39            | W0974727.91                                                                                                            | 01137                  | 54.8                                                                                                                                                                                                                                                                                                                                                                 |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
| CITY AND STATE<br><div style="text-align: center;">ENID, OK</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | ELEVATION: <b>1167</b> <b>TDZE: 1147</b><br>AIRPORT NAME:<br><div style="text-align: center;">ENID WOODRING RGNL</div> |                        | FACILITY IDENTIFIER:<br><div style="text-align: center;">I-EIU</div>                                                                                                                                                                                                                                                                                                 |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |
| PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center;"><b>ILS OR LOC RWY 35, AMDT 6, 7/21/2016</b></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | SUP:<br><hr/> AMDT: <b>5C</b><br><hr/> DATED: <b>03/06/2014</b>                                                        |                        |                                                                                                                                                                                                                                                                                                                                                                      |  |        |                       |                        |                        |                  |      |            |             |             |      |  |  |    |            |             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |        |                       |                        |                        |                  |      |            |             |       |      |

QUALITY  
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U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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|-------------|-----------------------|----------------|-----------|
| KETCHUM, OK | SOUTH GRAND LAKE RGNL | 21 JULY 2016   | ORIG      |

**TAKEOFF MINIMUMS:**

RWY 18 STANDARD.  
RWY 36 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 453 FEET PER NM TO 1200.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 18 - CLIMB ON HEADING 178.31 TO 1400 BEFORE TURNING LEFT.  
RWY 36 - CLIMB ON HEADING 358.31 TO 1400 BEFORE TURNING LEFT.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 18: TREE, BUSH BEGINNING 58 FEET FROM DER, 42 FEET RIGHT OF CENTERLINE, UP TO 789 FEET MSL. VEHICLES ON ROAD BEGINNING 274 FEET FROM DER, 199 FEET RIGHT OF CENTERLINE, UP TO 796 FEET MSL. VEHICLES ON ROAD BEGINNING 275 FEET FROM DER, 13 FEET RIGHT OF CENTERLINE, UP TO 797 FEET MSL. POLE 294 FEET FROM DER, 125 FEET RIGHT OF CENTERLINE, 21 FEET AGL/803 FEET MSL. POLE 300 FEET FROM DER, 442 FEET RIGHT OF CENTERLINE, 813 FEET MSL. TREE, POLE BEGINNING 410 FEET FROM DER, 22 FEET RIGHT OF CENTERLINE, UP TO 820 FEET MSL. TREE 1416 FEET FROM DER, 717 FEET RIGHT OF CENTERLINE, 823 FEET MSL. TREE 1429 FEET FROM DER, 541 FEET RIGHT OF CENTERLINE, 827 FEET MSL. TREES BEGINNING 1477 FEET FROM DER, 8 FEET RIGHT OF CENTERLINE, UP TO 60 FEET AGL/829 FEET MSL. TREES BEGINNING 1710 FEET FROM DER, 15 FEET RIGHT OF CENTERLINE, UP TO 60 FEET AGL/830 FEET MSL. TREE 2972 FEET FROM DER, 839 FEET RIGHT OF CENTERLINE, 859 FEET MSL. TREE, VEHICLES ON ROAD, POLE, POST BEGINNING 75 FEET FROM DER, 10 FEET LEFT OF CENTERLINE, UP TO 44 FEET AGL/824 FEET MSL. TREES BEGINNING 792 FEET FROM DER, 544 FEET LEFT OF CENTERLINE, UP TO 828 FEET MSL. TREE 1052 FEET FROM DER, 634 FEET LEFT OF CENTERLINE, 835 FEET MSL. TREES BEGINNING 1089 FEET FROM DER, 137 FEET LEFT OF CENTERLINE, UP TO 840 FEET MSL. TREES BEGINNING 1405 FEET FROM DER, 54 FEET LEFT OF CENTERLINE, UP TO 842 FEET MSL. TREES BEGINNING 1500 FEET FROM DER, 62 FEET LEFT OF CENTERLINE, UP TO 844 FEET MSL. TREES BEGINNING 1600 FEET FROM DER, 16 FEET LEFT OF CENTERLINE, UP TO 846 FEET MSL. TREES BEGINNING 1734 FEET FROM DER, 87 FEET LEFT OF CENTERLINE, UP TO 853 FEET MSL. TREE 2282 FEET FROM DER, 981 FEET LEFT OF CENTERLINE, 855 FEET MSL. TREE 2309 FEET FROM DER, 1108 FEET LEFT OF CENTERLINE, 858 FEET MSL.

NOTE: RWY 36: TREE, TERRAIN BEGINNING 4728 FEET FROM DER, ON CENTERLINE, UP TO 39 FEET AGL/985 FEET MSL. BUSH 28 FEET FROM DER, 82 FEET RIGHT OF CENTERLINE, 8 FEET AGL/787 FEET MSL. TREE 55 FEET FROM DER, 290 FEET RIGHT OF CENTERLINE, 795 FEET MSL. TREE, VEHICLES ON ROAD BEGINNING 185 FEET FROM DER, 27 FEET RIGHT OF CENTERLINE, UP TO 798 FEET MSL. TREE 292 FEET FROM DER, 297 FEET RIGHT OF CENTERLINE, 816 FEET MSL. TREES BEGINNING 293 FEET FROM DER, 33 FEET RIGHT OF CENTERLINE, UP TO 818 FEET MSL. TREES BEGINNING 629 FEET FROM DER, 31 FEET RIGHT OF CENTERLINE, UP TO 36 FEET AGL/820 FEET MSL. TREE 741 FEET FROM DER, 145 FEET RIGHT OF CENTERLINE, 41 FEET AGL/827 FEET MSL. TREES BEGINNING 785 FEET FROM DER, 2 FEET RIGHT OF CENTERLINE, UP TO 43 FEET AGL/829 FEET MSL. TREE 1413 FEET FROM DER, 525 FEET RIGHT OF CENTERLINE, 836 FEET MSL. TREES BEGINNING 1529 FEET FROM DER, 425 FEET RIGHT OF CENTERLINE, UP TO 845 FEET MSL. TREE 2457 FEET FROM DER, 1093 FEET RIGHT OF CENTERLINE, 856 FEET MSL. TREES BEGINNING 2612 FEET FROM DER, 8 FEET RIGHT OF CENTERLINE, UP TO 861 FEET MSL. TREES BEGINNING 2897 FEET FROM DER, 60 FEET RIGHT OF CENTERLINE, UP TO 862 FEET MSL. TREE 2990 FEET FROM DER, 387 FEET RIGHT OF CENTERLINE, 55 FEET AGL/872 FEET MSL. TREE 3031 FEET FROM DER, 260 FEET RIGHT OF CENTERLINE, 57 FEET AGL/879 FEET MSL. TREES BEGINNING 3127 FEET FROM DER, 113 FEET RIGHT OF CENTERLINE, UP TO 71 FEET AGL/892 FEET MSL. TREES BEGINNING 3427 FEET FROM DER, 9 FEET RIGHT OF CENTERLINE, UP TO 64 FEET AGL/897 FEET MSL. TREE 3843 FEET FROM DER, 170 FEET RIGHT OF CENTERLINE, 40 FEET AGL/899 FEET MSL. TREES BEGINNING 3846 FEET FROM DER, 56 FEET RIGHT OF CENTERLINE, UP TO 59 FEET AGL/912 FEET MSL. TREES BEGINNING 3932 FEET FROM DER, 18 FEET RIGHT OF CENTERLINE, UP TO 50 FEET AGL/913 FEET MSL. TREES BEGINNING 4065 FEET FROM DER, 144 FEET RIGHT OF CENTERLINE, UP TO 49 FEET AGL/918 FEET MSL. TREES BEGINNING 4072 FEET FROM DER, 26 FEET RIGHT OF CENTERLINE, UP TO 47 FEET AGL/920 FEET MSL. TREES BEGINNING 4144 FEET FROM DER, 19 FEET RIGHT OF CENTERLINE, UP TO 62 FEET AGL/929 FEET MSL. TREE, BUSH BEGINNING 4223 FEET FROM DER, 69 FEET RIGHT OF CENTERLINE, UP TO 63 FEET AGL/943 FEET MSL. TREE, BUSH, TERRAIN BEGINNING 4422 FEET FROM DER, 36 FEET RIGHT OF CENTERLINE, UP TO 56 FEET AGL/945 FEET MSL. TREE, BUSH, TERRAIN BEGINNING 4619 FEET FROM DER, 51 FEET RIGHT OF CENTERLINE, UP TO 58 FEET AGL/968 FEET MSL. TREE 4709 FEET FROM DER, 344 FEET RIGHT OF CENTERLINE, 58 FEET AGL/977 FEET MSL. TREES BEGINNING 4833 FEET FROM DER, 99 FEET RIGHT OF CENTERLINE, UP TO 44 FEET AGL/998 FEET MSL. TREES BEGINNING 4902 FEET FROM DER, 229 FEET RIGHT OF CENTERLINE, UP TO 63 FEET AGL/1009 FEET MSL. TREE, TERRAIN BEGINNING 4933 FEET FROM DER, 26 FEET RIGHT OF CENTERLINE, UP TO 57 FEET AGL/1013 FEET MSL. TREES BEGINNING 4982 FEET FROM DER, 97 FEET RIGHT OF CENTERLINE, UP TO 39 FEET AGL/1019 FEET MSL. TREE, BUSH, TERRAIN BEGINNING 5020 FEET FROM DER, 64 FEET RIGHT OF CENTERLINE, UP TO 40 FEET AGL/1020 FEET MSL. TREE, TERRAIN, BUSH BEGINNING 5223 FEET FROM DER, 4 FEET RIGHT OF CENTERLINE, UP TO 51 FEET AGL/1026 FEET MSL. TREE 1 NM FROM DER, 1132 FEET RIGHT OF CENTERLINE, 947 FEET MSL. TREE, BUSH BEGINNING 2 FEET FROM DER, 122 FEET LEFT OF CENTERLINE, UP TO 800 FEET MSL. TREE, TERRAIN, BUSH, FENCE, VEHICLES ON ROAD BEGINNING 109 FEET FROM DER, 3 FEET LEFT OF CENTERLINE, UP TO 36 FEET AGL/833 FEET MSL. TREE, TERRAIN, DRIVEWAY BEGINNING 388 FEET FROM DER, 2 FEET LEFT OF CENTERLINE, UP TO 845 FEET MSL. TREES BEGINNING 1490 FEET FROM DER, 41 FEET LEFT OF CENTERLINE, UP TO 48 FEET AGL/846 FEET MSL. TREES BEGINNING 1582 FEET FROM DER, 13 FEET LEFT OF CENTERLINE, UP TO 47 FEET AGL/848 FEET MSL. TREE 1640 FEET FROM DER, 65 FEET LEFT OF CENTERLINE, 48 FEET AGL/849 FEET MSL. TREE 1699 FEET FROM DER, 131 FEET LEFT OF CENTERLINE, 47 FEET AGL/851 FEET MSL. TREE, TERRAIN BEGINNING 1704 FEET FROM DER, 25 FEET LEFT OF CENTERLINE, UP TO 45 FEET AGL/857 FEET MSL. TREE,

QUALITY  
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POLE, TERRAIN BEGINNING 1881 FEET FROM DER, 83 FEET LEFT OF CENTERLINE, UP TO 44 FEET AGL/859 FEET MSL. TREE, TERRAIN BEGINNING 1986 FEET FROM DER, 103 FEET LEFT OF CENTERLINE, UP TO 56 FEET AGL/866 FEET MSL. TREES BEGINNING 2210 FEET FROM DER, 175 FEET LEFT OF CENTERLINE, UP TO 56 FEET AGL/868 FEET MSL. TREES BEGINNING 2379 FEET FROM DER, 220 FEET LEFT OF CENTERLINE, UP TO 53 FEET AGL/870 FEET MSL. TREE, POLE BEGINNING 2477 FEET FROM DER, 304 FEET LEFT OF CENTERLINE, UP TO 876 FEET MSL. TREES BEGINNING 2641 FEET FROM DER, 366 FEET LEFT OF CENTERLINE, UP TO 58 FEET AGL/884 FEET MSL. TREE, POLE BEGINNING 2709 FEET FROM DER, 112 FEET LEFT OF CENTERLINE, UP TO 891 FEET MSL. TREES BEGINNING 2931 FEET FROM DER, 35 FEET LEFT OF CENTERLINE, UP TO 928 FEET MSL. TREES BEGINNING 3043 FEET FROM DER, 163 FEET LEFT OF CENTERLINE, UP TO 929 FEET MSL. TREES BEGINNING 3213 FEET FROM DER, 286 FEET LEFT OF CENTERLINE, UP TO 942 FEET MSL. TREE, POLE BEGINNING 3329 FEET FROM DER, 168 FEET LEFT OF CENTERLINE, UP TO 958 FEET MSL. TREE 3426 FEET FROM DER, 1210 FEET LEFT OF CENTERLINE, 965 FEET MSL. TREES BEGINNING 3427 FEET FROM DER, 154 FEET LEFT OF CENTERLINE, UP TO 969 FEET MSL. TREES BEGINNING 3533 FEET FROM DER, 66 FEET LEFT OF CENTERLINE, UP TO 988 FEET MSL. TREES BEGINNING 3680 FEET FROM DER, 12 FEET LEFT OF CENTERLINE, UP TO 997 FEET MSL. TREE, BUSH BEGINNING 4265 FEET FROM DER, 47 FEET LEFT OF CENTERLINE, UP TO 998 FEET MSL. TREE, BUSH BEGINNING 4325 FEET FROM DER, 267 FEET LEFT OF CENTERLINE, UP TO 1008 FEET MSL. TREE, BUSH BEGINNING 4351 FEET FROM DER, 95 FEET LEFT OF CENTERLINE, UP TO 1013 FEET MSL. TREE, BUSH BEGINNING 4393 FEET FROM DER, 30 FEET LEFT OF CENTERLINE, UP TO 1017 FEET MSL. TREES BEGINNING 4466 FEET FROM DER, 376 FEET LEFT OF CENTERLINE, UP TO 1024 FEET MSL. TREE, TERRAIN, BUSH BEGINNING 4485 FEET FROM DER, 50 FEET LEFT OF CENTERLINE, UP TO 1022 FEET MSL. TREE, BUSH, TERRAIN BEGINNING 4602 FEET FROM DER, 11 FEET LEFT OF CENTERLINE, UP TO 1025 FEET MSL. TREE, TERRAIN BEGINNING 4682 FEET FROM DER, 84 FEET LEFT OF CENTERLINE, UP TO 1030 FEET MSL. TREE, TERRAIN BEGINNING 4797 FEET FROM DER, 143 FEET LEFT OF CENTERLINE, UP TO 1032 FEET MSL. TREE, TERRAIN, BUSH, TRMSN TOWERS BEGINNING 4880 FEET FROM DER, 4 FEET LEFT OF CENTERLINE, UP TO 1033 FEET MSL.

**CONTROLLING OBSTACLES:**

RWY 36: 1033 FEET MSL TREE 363358.58N/0950104.06W (CEILING)  
947 FEET MSL TREE 363414.76N/0950034.19W (VISIBILITY)  
997 FEET MSL TREE 363346.72N/0950105.56W (CLIMB GRADIENT)  
1024 FEET MSL TREE 363354.50N/0950107.33W (CLIMB-TO ALTITUDE)  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 18: 1275 FEET MSL TOWER 363111.25N/0950001.80W.  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 36: 1259 FEET MSL TOWER 363455.48N-0950138.07W.

QUALITY  
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| KETCHUM, OK | SOUTH GRAND LAKE RGNL | 21 JULY 2016   | ORIG      |

**REMARKS:**

**FLIGHT INSPECTED BY:**

GARY BELL

FICO

*Digitally signed by*

**JACOB POWERS**

04/21/2016

May 23, 2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

PABLO ORTIZ

*Digitally signed by*

**PABLO ORTIZ-JR**

AJV-5422

03/15/2016

Mar 21, 2016

**APPROVED BY:**

GEORGE GONZALEZ

AJV-5420

*Digitally signed by*

**JACOB POWERS**

May 23, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZKC, AMGR

**CHANGES:**

ORIGINAL PROCEDURE.

**REASONS:**

QUALITY  
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CHECKED

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|---------|---------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|--------|-----|---------|
| <b>ILS - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.29</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                      |         |                                             |     | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                  |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | TO                                   |         | COURSE AND DISTANCE                         |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTITUDE                               |         | <b>ILS: DA</b><br><b>LOC: 5.94 NM AFTER BUHRS/ONP 6.63 DME</b><br><br><b>CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 020 AND ON ONP VORTAC R-343 TO BUHRS/6.63 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.</b><br><br><b>ADDITIONAL FLIGHT DATA:</b><br><b>HOLD N, RT, 162.32 INBOUND.</b><br><b>400 AAO 443902N/1240327W</b><br><b>CHART VDP AT 2.10 DME*</b><br><b>DISTANCE VDP TO THLD 1.41 NM.</b><br><b>*LOC ONLY.</b><br><b>CHART (CFCDZ) AT INTERSECTION OF CUTEL DR LEG AND INTERMEDIATE COURSE.</b><br><b>CHART ONP R-029 AT LANKE.</b><br><b>CHART CIRCLING ICON.</b> |     |                  |        |     |         |
| ONP VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | BUHRS/ONP VORTAC 6.63 DME            |         | 343.05 / 6.63                               |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 3100                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| LANKE/ONP VORTAC 16.00 DME<br>CCW (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | BOILR/ONP VORTAC 16.00 DME<br>(NOPT) |         | 16.00 DME ARC (ONP LR-350)                  |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 4000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| CUTEL/ONP VORTAC 20.00 DME<br>(IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | BOILR/ONP VORTAC 16.00 DME<br>(NOPT) |         | 220.00 / 2.86 (HDG) & 162.32 / 2.31 (I-ONP) |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 2600                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| BOILR/ONP VORTAC 16.00 DME<br>(IF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | BUHRS/ONP VORTAC 6.63 DME            |         | 162.32 / 9.37 (I-ONP)                       |     |                                                                                                                                                                                                                                                                                                                                                                      |        | 2100                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| 1. PT <u>L</u> SIDE OF COURSE <u>342.32</u> OUTBOUND <u>2600</u> FT WITHIN <u>10</u> MILES OF <u>BUHRS</u> (IAF)<br>2. _____<br>3. FAC: <u>162.32</u> FAF: <u>BUHRS/ONP VORTAC 6.63 DME</u> DIST FAF TO MAP: <u>5.94</u> THLD: <u>5.94</u><br>4. MIN. ALT: <u>BUHRS 2100, WUKON/ONP VORTAC 4.69 DME 1480*</u><br>5. DIST TO THLD FROM OM: <u>-</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1125</u><br>6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>BUHRS 2100</u> OM: <u>-</u> MM: <u>-</u> IM: <u>-</u><br>7. GS ANGLE: <u>3.00</u> TCH: <u>55.3</u><br>8. MSA FROM: <u>ONP VORTAC 010-190 5300, 190-280 2000, 280-010 4600</u> |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         | MAG VAR: 15E EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                  |        |     |         |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ALTERNATE: N A                         |         | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                  |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | A                                    |         | B                                           |     | C                                                                                                                                                                                                                                                                                                                                                                    |        | D                                      |         | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DH/MDA | VIS                                  | HAT/HAA | DH/MDA                                      | VIS | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VIS | HAT/HAA          | DH/MDA | VIS | HAT/HAA |
| S-ILS 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 402    | 3/4                                  | 250     | 402                                         | 3/4 | 250                                                                                                                                                                                                                                                                                                                                                                  | 402    | 3/4                                    | 250     | 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/4 | 250              |        |     |         |
| S-LOC 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 660    | 3/4                                  | 508     | 660                                         | 3/4 | 508                                                                                                                                                                                                                                                                                                                                                                  | 660    | 1                                      | 508     | 660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1   | 508              |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 880    | 1                                    | 720     | 880                                         | 1   | 720                                                                                                                                                                                                                                                                                                                                                                  | 940    | 2 1/4                                  | 780     | 1220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3   | 1060             |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| NOTES:<br>CHART NOTE: DME REQUIRED.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART PLANVIEW NOTE: DME REQUIRED.<br>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                                                                                                                     |        |                                      |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                  |        |     |         |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | ELEVATION: 160 TDZE: 152             |         |                                             |     | FACILITY IDENTIFIER: I-ONP                                                                                                                                                                                                                                                                                                                                           |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | SUP:             |        |     |         |
| NEWPORT, OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | AIRPORT NAME:                        |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        | ILS OR LOC RWY 16, AMDT 2, 07/21/2016  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | AMDT: 1C         |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | NEWPORT MUNI                         |         |                                             |     |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | DATED 12/11/2014 |        |     |         |

QUALITY  
 25  
 CHECKED

## ILS - STANDARD

## INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## NOTES, (CONT.):

CHART NOTE: VDP NA WHEN USING TILLAMOOK ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TILLAMOOK ALTIMETER SETTING;  
INCREASE DA TO 537 FEET AND ALL MDA 140 FEET; INCREASE S-LOC 16 CAT C/D VISIBILITY 3/8 MILE AND  
INCREASE CIRCLING CAT A/B/C VISIBILITY 1/2 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 16 CAT A/B VISIBILITY TO 1 MILE AND CAT C/D  
VISIBILITY TO 1 3/8 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING TILLAMOOK ALTIMETER SETTING, INCREASE S-ILS 16 ALL  
CATS

VISIBILITY TO 1 1/4 MILE AND INCREASE S-LOC 16 CAT A/B VISIBILITY TO 1 MILE.

CHART NOTE: DME FROM ONP VORTAC. SIMULTANEOUS RECEPTION OF I-ONP AND ONP DME REQUIRED.



CITY AND STATE

NEWPORT, OR

ELEVATION: 160

TDZE: 152

AIRPORT NAME:

NEWPORT MUNI

FACILITY  
IDENTIFIER:  
  
I-ONP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 16, AMDT 2, 07/21/2016

SUP:

AMDT: 1C

DATED: 12/11/2014

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.



|                               |                |           |                               |                                                                                 |                   |
|-------------------------------|----------------|-----------|-------------------------------|---------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>NEWPORT, OR | ELEVATION: 160 | TDZE: 152 | FACILITY IDENTIFIER:<br>I-ONP | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 16, AMDT 2, 07/21/2016 | SUP:              |
|                               | AIRPORT NAME:  |           |                               |                                                                                 | AMDT: 1C          |
|                               | NEWPORT MUNI   |           |                               |                                                                                 | DATED: 12/11/2014 |

ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.



|                               |                |           |                               |                                                                                 |                   |
|-------------------------------|----------------|-----------|-------------------------------|---------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>NEWPORT, OR | ELEVATION: 160 | TDZE: 152 | FACILITY IDENTIFIER:<br>I-ONP | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 16, AMDT 2, 07/21/2016 | SUP:              |
|                               | AIRPORT NAME:  |           |                               |                                                                                 | AMDT: 1C          |
|                               | NEWPORT MUNI   |           |                               |                                                                                 | DATED: 12/11/2014 |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KONP

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| CUTEL      | 010        | CUTEL       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| CUTEL      | 020        | CFCDZ       | TF          | FB    |     |            |            |       |             |               |                | AA 02600                           |                                       | E                          |
| CUTEL      | 030        | BOILR       | CF          | FB    |     | 162.3      | IONP       |       |             |               |                | AA 02600                           |                                       | EE B                       |
| LANKE      | 010        | LANKE       | IF          | FB    |     |            | ONP        |       |             |               |                |                                    |                                       | E A                        |
| LANKE      | 020        | BOILR       | AF          | FB    |     | 029.3      | ONP        |       | L           |               |                | AA 04000                           |                                       | EE B                       |
| ONP        | 010        | ONP         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ONP        | 020        | BUHRS       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| ONP        | 030        | BUHRS       | PI          | FB    |     | 297.3      | IONP       |       | R           |               |                | AA 02600                           |                                       | EE A                       |
|            | 010        | BOILR       | IF          | FB    |     |            | IONP       |       |             |               |                | AA 02600 GI 02100                  |                                       | E I                        |
|            | 020        | BUHRS       | CF          | FB    |     | 162.0      | IONP       | 3.00  |             | ONP           |                | GI 02100 GS 02100                  |                                       | E F                        |
|            | 030        | RW16        | CF          | FO    |     | 162.0      | IONP       | 3.00  |             |               |                | AT 00206                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 162.3      |            |       |             |               |                | AA 01000                           |                                       | M                          |
|            | 050        |             | VI          | FB    |     | 020.0      |            |       | R           |               |                |                                    |                                       |                            |
|            | 060        | BUHRS       | CF          | FO    |     | 343.1      | ONP        |       |             |               |                | AA 03000                           |                                       | EY                         |
|            | 070        | BUHRS       | HM          | FO    |     | 162.3      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ONP        | N443431.26 | W1240338.14 |
| CUTEL      | N445427.50 | W1240125.30 |
| LANKE      | N444557.61 | W1234757.61 |
| BOILR      | N445030.42 | W1240434.13 |
| BUHRS      | N444108.83 | W1240357.11 |
| CFCDZ      | N445030.42 | W1240434.14 |
| IONP (LOC) | N443416.44 | W1240330.05 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW16   | N443512.64            | W1240333.74            | 00151                  | 55.3             |

QUALITY  
28  
CHECKED

CITY AND STATE  
**NEWPORT, OR**

ELEVATION: **160** TDZE: **152**  
AIRPORT NAME:  
**NEWPORT MUNI**

FACILITY  
IDENTIFIER:  
**I-ONP**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**ILS OR LOC RWY 16, AMDT 2, 07/21/2016**

SUP:  
AMDT: **1C**  
DATED: **12/11/2014**

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KONP

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| CUTEL      | 010        | CUTEL       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| CUTEL      | 020        | CFCDDZ      | TF          | FB    |     |            |            |       |             |               |                | AA 02600                           |                                       | E                          |
| CUTEL      | 030        | BOILR       | CF          | FB    |     | 162.3      | IONP       |       |             |               |                | AA 02600                           |                                       | EE B                       |
| LANKE      | 010        | LANKE       | IF          | FB    |     |            | ONP        |       |             |               |                |                                    |                                       | E A                        |
| LANKE      | 020        | BOILR       | AF          | FB    |     | 029.3      | ONP        |       | L           |               |                | AA 04000                           |                                       | EE B                       |
| ONP        | 010        | ONP         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ONP        | 020        | BUHRS       | TF          | FB    |     |            |            |       |             |               |                | AA 03100                           |                                       | E                          |
| ONP        | 030        | BUHRS       | PI          | FB    |     | 297.3      | IONP       |       | R           |               |                | AA 02600                           |                                       | EE A                       |
|            | 010        | BOILR       | IF          | FB    |     |            | IONP       |       |             |               |                | AA 02600                           |                                       | E I                        |
|            | 020        | BUHRS       | CF          | FB    |     | 162.0      | IONP       |       |             | ONP           |                | AA 02100                           |                                       | E F                        |
|            | 021        | WUKON       | CF          | FB    |     | 162.0      | IONP       | 3.01  |             |               |                | AA 01480                           |                                       | E S                        |
|            | 030        | RW16        | CF          | FO    |     | 162.0      | IONP       | 3.01  |             |               |                | AT 00206                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 162.3      |            |       |             |               |                | AA 01000                           |                                       | M                          |
|            | 050        |             | VI          | FB    |     | 020.0      |            |       | R           |               |                |                                    |                                       |                            |
|            | 060        | BUHRS       | CF          | FO    |     | 343.1      | ONP        |       |             |               |                | AA 03000                           |                                       | EY                         |
|            | 070        | BUHRS       | HM          | FO    |     | 162.3      |            |       | R           |               |                | AA 03000                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ONP        | N443431.26 | W1240338.14 |
| CUTEL      | N445427.50 | W1240125.30 |
| LANKE      | N444557.61 | W1234757.61 |
| BOILR      | N445030.42 | W1240434.13 |
| BUHRS      | N444108.83 | W1240357.11 |
| CFCDDZ     | N445030.42 | W1240434.14 |
| WUKON      | N443912.37 | W1240349.46 |
| IONP (LOC) | N443416.44 | W1240330.05 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW16   | N443512.64            | W1240333.74            | 00151                  | 55.3             |

QUALITY  
28  
CHECKED

CITY AND STATE  
NEWPORT, OR

ELEVATION: 160 TDZE: 152  
AIRPORT NAME:  
NEWPORT MUNI

FACILITY  
IDENTIFIER:  
I-ONP

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 16, AMDT 2, 07/21/2016

SUP:  
AMDT: 1C  
DATED: 12/11/2014



|                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------|------------|---------|--------|-----|---------|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                               |  | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |       | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       | MISSED APPROACH |        |            |         |        |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                             |  | TO                                                                          |       | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |        | ALTITUDE                                                                            |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW16<br><br>CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3700 DIRECT BOILR AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 369 TREE 443515N/1240247W<br>DISTANCE TO THLD FROM 250 HAT: 0.61 NM.<br>CHART VDP AT 1.62 NM TO RW16*<br>*LNAV ONLY.<br>WAAS CHANNEL # 53439<br>REFERENCE PATH ID: W16A<br>CHART CIRCLING ICON.<br>920 AAO 444115N/1240227W<br>LTP HAE: 22.1 M |       |                 |        |            |         |        |     |         |  |
| ONP VORTAC                                                                                                                                                                                                                                                                                                                                                       |  | BOILR (FO)                                                                  |       | 342.62 / 16.00                                                                                                                                                                                                                                                                                                                                                       |        | 3700                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| LANKE (IAF)                                                                                                                                                                                                                                                                                                                                                      |  | DOYER (NOPT) (FB)                                                           |       | 307.34 / 6.26                                                                                                                                                                                                                                                                                                                                                        |        | 4000                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| DOYER                                                                                                                                                                                                                                                                                                                                                            |  | BOILR (FB)                                                                  |       | 252.13 / 8.00                                                                                                                                                                                                                                                                                                                                                        |        | 3700                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| CUTEL (IAF)                                                                                                                                                                                                                                                                                                                                                      |  | BOILR (NOPT) (FB)                                                           |       | 194.54 / 4.54                                                                                                                                                                                                                                                                                                                                                        |        | 3700                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| BOILR (IF/IAF)                                                                                                                                                                                                                                                                                                                                                   |  | BUHRS (FB)                                                                  |       | 162.31 / 9.37                                                                                                                                                                                                                                                                                                                                                        |        | 2100                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| BUHRS (FAF)                                                                                                                                                                                                                                                                                                                                                      |  | CALAX/4.00 NM TO RW16 (FB)                                                  |       | 162.32 / 1.95                                                                                                                                                                                                                                                                                                                                                        |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| (SEE FORM 8260-10)                                                                                                                                                                                                                                                                                                                                               |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                             |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 2. HOLD N BOILR, RT, 162.31 INBOUND, 3700 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                                |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 3. FAC: 162.32 FAF: BUHRS DIST FAF TO MAP: 5.94 THLD: 5.94                                                                                                                                                                                                                                                                                                       |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 4. MIN. ALT: BOILR 3700, BUHRS 2100, CALAX/4.00 NM TO RW16 1480*                                                                                                                                                                                                                                                                                                 |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                                   |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 6. MIN GS INCPT: 2100 GS ALT AT: BUHRS 2100 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                        |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 7. GS ANGLE: 3.00 TCH: 55.3 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                                                    |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| 8. MSA FROM: RW16 5300                                                                                                                                                                                                                                                                                                                                           |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| MAG VAR: 15E EPOCH YEAR: 2020                                                                                                                                                                                                                                                                                                                                    |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                         |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                  |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       | ALTERNATE: N A  |        | STANDARD @ |         |        |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                  |  | A                                                                           |       | B                                                                                                                                                                                                                                                                                                                                                                    |        | C                                                                                   |         | D                                                                                                                                                                                                                                                                                                                                                                                                                   |       | E               |        |            |         |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                  |  | DH/MDA                                                                      | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                                                                 | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                                              | VIS   | HAT/HAA         | DH/MDA | VIS        | HAT/HAA | DH/MDA | VIS | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                           |  | 402                                                                         | 3/4   | 250                                                                                                                                                                                                                                                                                                                                                                  | 402    | 3/4                                                                                 | 250     | 402                                                                                                                                                                                                                                                                                                                                                                                                                 | 3/4   | 250             | 402    | 3/4        | 250     |        |     |         |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                     |  | 613                                                                         | 1 1/8 | 461                                                                                                                                                                                                                                                                                                                                                                  | 613    | 1 1/8                                                                               | 461     | 613                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 1/8 | 461             | 613    | 1 1/8      | 461     |        |     |         |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                         |  | 620                                                                         | 3/4   | 468                                                                                                                                                                                                                                                                                                                                                                  | 620    | 3/4                                                                                 | 468     | 620                                                                                                                                                                                                                                                                                                                                                                                                                 | 1     | 468             | 620    | 1          | 468     |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                         |  | 880                                                                         | 1     | 720                                                                                                                                                                                                                                                                                                                                                                  | 880    | 1                                                                                   | 720     | 940                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 1/4 | 780             | 1220   | 3          | 1060    |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ CAT C 800-2 1/4, CAT D 1100-3<br>CHART NOTE: BARO-VNAV AND VDP NA WHEN USING TILLAMOOK ALTIMETER SETTING.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>(CONTINUED ON PAGE 2) |  |                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                 |        |            |         |        |     |         |  |
| CITY AND STATE<br>NEWPORT, OR                                                                                                                                                                                                                                                                                                                                    |  | ELEVATION: 160 TDZE: 152<br>AIRPORT NAME:<br>NEWPORT MUNI                   |       | FACILITY<br>IDENTIFIER:<br>RNAV                                                                                                                                                                                                                                                                                                                                      |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 16, AMDT 1<br>21 JULY 2016 |         | SUP:<br>AMDT: ORIG-A<br>DATED 12/11/2014                                                                                                                                                                                                                                                                                                                                                                            |       |                 |        |            |         |        |     |         |  |



**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**TERMINAL ROUTES, (CONT.):**

| FROM                  | TO              | COURSE AND DISTANCE | ALTITUDE |
|-----------------------|-----------------|---------------------|----------|
| CALAX/4.00 NM TO RW16 | RW16 (MAP) (FO) | 162.32 / 4.00       |          |
| RW16 (MAP)            | 600 MSL         | 162.32              | 600      |
| 600 MSL               | BOILR (FO)      |                     | 3700     |

**NOTES, (CONT.):**

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LANKE ON V182 SOUTHWEST BOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ONP VORTAC ON T274 SOUTHWEST BOUND.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TILLAMOOK ALTIMETER SETTING: INCREASE LPV DA TO 537 FEET AND LNAV/VNAV DA TO 748 FEET AND ALL MDA 140 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY AND LNAV CAT C/D VISIBILITY 3/8 MILE AND INCREASE CIRCLING CAT A/B/C VISIBILITY 1/2 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/2 MILE, AND INCREASE LNAV CAT A/B VISIBILITY TO 1 MILE, CAT C/D TO 1 3/8 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING TILLAMOOK ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 1/4 MILE, AND LNAV CAT A/B VISIBILITY TO 1 MILE, LNAV CAT C/D TO 1 3/4 MILE.

QUALITY  
25  
CHECKED

CITY AND STATE

NEWPORT, OR

ELEVATION: 160

TDZE: 152

AIRPORT NAME:

NEWPORT MUNI

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, AMDT 1

21 JULY 2016

SUP:

AMDT: ORIG-A

DATED: 12/11/2014

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
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QUALITY  
25  
CHECKED

CITY AND STATE  
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
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RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 16, AMDT 1  
21 JULY 2016

SUP:  
AMDT: ORIG-A  
DATED: 12/11/2014

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KONP          |
| RUNWAY                                   | RW16          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W16A          |
| LTP/FTP LATITUDE                         | 443512.6380N  |
| LTP/FTP LONGITUDE                        | 1240333.7350W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00221        |
| FPAP LATITUDE                            | 443343.6390N  |
| FPAP LONGITUDE                           | 1240327.9080W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00055.3       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1104          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>02B8234C  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K1     |
| LTP ORTHOMETRIC HEIGHT  | +00464 |
| FPAP ORTHOMETRIC HEIGHT | +00464 |

QUALITY  
25  
CHECKED

|                                   |                                                     |                       |                                                                                             |                   |
|-----------------------------------|-----------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br><br>NEWPORT, OR | ELEVATION: 160<br>AIRPORT NAME:<br><br>NEWPORT MUNI | TDZE: 152<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 16, AMDT 1<br><br>21 JULY 2016 | SUP:              |
|                                   |                                                     |                       |                                                                                             | AMDT: ORIG-A      |
|                                   |                                                     |                       |                                                                                             | DATED: 12/11/2014 |

|                                                                                                                                                                                                      |            |                       |             |       |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------|-------|------------------------|-------------|------------|------------------------|-------------|---------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b> |            |                       |             |       |                        |             |            |                        |             |               |                  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KONP                                                                                                                                                                                 |            |                       |             |       |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                                                                                                                                                               |            |                       |             |       |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                           | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO | RNP                    | MAG<br>CRS  | REC<br>NAV | ANGLE                  | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS   | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| CUTEL                                                                                                                                                                                                | 010        | CUTEL                 | IF          | FB    |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| CUTEL                                                                                                                                                                                                | 020        | BOILR                 | TF          | FB    | 1.0                    | 194.5       |            |                        |             |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| LANKE                                                                                                                                                                                                | 010        | LANKE                 | IF          | FB    |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E A                        |
| LANKE                                                                                                                                                                                                | 020        | DOYER                 | TF          | FB    | 1.0                    | 307.3       |            |                        |             |               |                  | AA 04000                                                                                                                                                                                                                                                                                                                                                             |                                       | E                          |
| LANKE                                                                                                                                                                                                | 030        | BOILR                 | TF          | FB    | 1.0                    | 252.1       |            |                        |             |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |
| ONP                                                                                                                                                                                                  | 010        | ONP                   | IF          | FB    |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V                          |
| ONP                                                                                                                                                                                                  | 020        | BOILR                 | TF          | FO    | 2.0                    | 342.6       |            |                        |             |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
| ONP                                                                                                                                                                                                  | 030        | BOILR                 | HF          | FO    |                        | 162.3       |            |                        | R           |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |
|                                                                                                                                                                                                      | 010        | BOILR                 | IF          | FB    |                        |             |            |                        |             |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                                                                                                                                                      | 020        | BUHRS                 | TF          | FB    | 1.0                    | 162.3       |            |                        |             | RW16          |                  | AA 02100                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                                                                                                                                                      | 021        | CALAX                 | TF          | FB    | 0.3                    | 162.3       |            | 3.00                   |             |               |                  | AA 01480 GS 01480                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |
|                                                                                                                                                                                                      | 030        | RW16                  | TF          | FO    | 0.3                    | 162.3       |            | 3.00                   |             |               |                  | AT 00206                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |
|                                                                                                                                                                                                      | 040        |                       | CA          | FB    |                        | 162.3       |            |                        |             |               |                  | AA 00600                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                                                                                                                                                      | 050        | BOILR                 | DF          | FO    |                        |             |            |                        | R           |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
|                                                                                                                                                                                                      | 060        | BOILR                 | HM          | FO    |                        | 162.3       |            |                        | R           |               |                  | AA 03700                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| POINTS                                                                                                                                                                                               |            |                       |             |       |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                           |            |                       | LATITUDE    |       |                        | LONGITUDE   |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ONP                                                                                                                                                                                                  |            |                       | N443431.26  |       |                        | W1240338.14 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CUTEL                                                                                                                                                                                                |            |                       | N445427.50  |       |                        | W1240125.30 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| LANKE                                                                                                                                                                                                |            |                       | N444557.61  |       |                        | W1234757.61 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BOILR                                                                                                                                                                                                |            |                       | N445030.42  |       |                        | W1240434.13 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| BUHRS                                                                                                                                                                                                |            |                       | N444108.83  |       |                        | W1240357.11 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| CALAX                                                                                                                                                                                                |            |                       | N443912.15  |       |                        | W1240349.44 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| DOYER                                                                                                                                                                                                |            |                       | N445054.99  |       |                        | W1235320.36 |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                              |            |                       |             |       |                        |             |            |                        |             |               |                  |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                               |            | THRESHOLD<br>LATITUDE |             |       | THRESHOLD<br>LONGITUDE |             |            | THRESHOLD<br>ELEVATION |             |               | PROCEDURE<br>TCH |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW16                                                                                                                                                                                                 |            | N443512.64            |             |       | W1240333.74            |             |            | 00151                  |             |               | 55.3             |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
15  
CHECKED

|                                      |                       |                  |                      |                                            |                   |
|--------------------------------------|-----------------------|------------------|----------------------|--------------------------------------------|-------------------|
| CITY AND STATE<br><b>NEWPORT, OR</b> | ELEVATION: <b>160</b> | TDZE: <b>152</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP:              |
|                                      | AIRPORT NAME:         |                  |                      | <b>RNAV (GPS) RWY 16, AMDT 1</b>           | AMDT: <b>NONE</b> |
|                                      | <b>NEWPORT MUNI</b>   |                  | <b>RNAV</b>          | 21 JULY 2016                               | DATED:            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------|---------|------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|------------------|--------|-----|---------|
| <b>RNAV - STANDARD</b><br><b>US DEPARTMENT OF TRANSPORTATION</b><br><b>FEDERAL AVIATION ADMINISTRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                               |         | <b>INSTRUMENT APPROACH PROCEDURE</b><br><b>TITLE 14 CFR PART 97.33</b> |     |                                                                                     |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               | MISSED APPROACH |     |                  |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | TO                                                            |         | COURSE AND DISTANCE                                                    |     |                                                                                     | ALTITUDE       |                                                                                                                                                                                                                                                                                                                                                                      | <b>LNAV: AVAVE</b><br><br>CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 4000 DIRECT TULBE AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 598 TREE 443227N/1240219W<br>960 AAO 442930N/1235951W<br>CHART VDP AT 1.24 NM TO AVAVE.<br>JONLA TO RW34: 3.50/57.7.<br>CHART CIRCLING ICON.<br>FAC CROSSES RWY C/L EXTENDED 3038 FT FROM THLD.<br>CHART PLANVIEW NOTE: FINAL APPROACH OFFSET 11.28 DEGREES. |                 |     |                  |        |     |         |
| ONP VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | TULBE (FO)                                                    |         | 151.44 / 17.00                                                         |     |                                                                                     | 4000           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| BOSVE (IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | TULBE (NOPT) (FB)                                             |         | 018.97 / 10.15                                                         |     |                                                                                     | 4000           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| TULBE (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | WILIK (FB)                                                    |         | 331.51 / 6.77                                                          |     |                                                                                     | 2700           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| WILIK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | JONLA (FB)                                                    |         | 331.40 / 4.99                                                          |     |                                                                                     | 2100           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| JONLA (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | AVAVE (MAP) (FO)                                              |         | 331.05 / 4.58                                                          |     |                                                                                     | 2500           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| AVAVE (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 2500 MSL                                                      |         | 331.05                                                                 |     |                                                                                     | 2500           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| 2500 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | TULBE (FO)                                                    |         |                                                                        |     |                                                                                     | 4000           |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD SE TULBE, LT, 331.51 INBOUND, 4000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 331.05 FAF: JONLA DIST FAF TO MAP: 4.58 THLD: 5.07<br>4. MIN. ALT: TULBE 4000, WILIK 2700, JONLA 2100<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR<br>8. MSA FROM: AVAVE 5300 |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               | MAG VAR: 15E    |     | EPOCH YEAR: 2020 |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     | ALTERNATE: N A |                                                                                                                                                                                                                                                                                                                                                                      | STANDARD @                                                                                                                                                                                                                                                                                                                                                                                                    |                 |     |                  |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | A                                                             |         | B                                                                      |     |                                                                                     | C              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               | D               |     |                  | E      |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DH/MDA | VIS                                                           | HAT/HAA | DH/MDA                                                                 | VIS | HAT/HAA                                                                             | DH/MDA         | VIS                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA                                                                                                                                                                                                                                                                                                                                                                                                       | DH/MDA          | VIS | HAT/HAA          | DH/MDA | VIS | HAT/HAA |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 860    | 1                                                             | 702     | 860                                                                    | 1   | 702                                                                                 | 860            | 2                                                                                                                                                                                                                                                                                                                                                                    | 702                                                                                                                                                                                                                                                                                                                                                                                                           | 860             | 2   | 702              |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 880    | 1                                                             | 720     | 880                                                                    | 1   | 720                                                                                 | 940            | 2 1/4                                                                                                                                                                                                                                                                                                                                                                | 780                                                                                                                                                                                                                                                                                                                                                                                                           | 1220            | 3   | 1060             |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART NOTE: VDP NA WHEN USING TILLAMOOK ALTIMETER SETTING.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TILLAMOOK ALTIMETER SETTING AND<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                     |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |                  |        |     |         |
| CITY AND STATE<br><br>NEWPORT, OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | ELEVATION: 160 TDZE: 158<br>AIRPORT NAME:<br><br>NEWPORT MUNI |         | FACILITY IDENTIFIER:<br>RNAV                                           |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 34, AMDT 1<br>21 JULY 2016 |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     | SUP:             |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     | AMDT: ORIG-B     |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                               |         |                                                                        |     |                                                                                     |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     | DATED 12/11/2014 |        |     |         |





US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

**INCREASE ALL MDA 140 FT, AND INCREASE LNAV ALL CATS VISIBILITY AND CIRCLING CAT A/B/C VISIBILITY 1/2 MILE.**

**CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ONP VORTAC ON V452 WESTBOUND.**

QUALITY  
25  
CHECKED

|                                      |                                                                  |                                     |                                                                                            |                          |
|--------------------------------------|------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>NEWPORT, OR</b> | ELEVATION: 160 TDZE: 158<br>AIRPORT NAME:<br><b>NEWPORT MUNI</b> | FACILITY IDENTIFIER:<br><b>RNAV</b> | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 34, AMDT 1</b><br>21 JULY 2016 | SUP:                     |
|                                      |                                                                  |                                     |                                                                                            | AMDT: <b>ORIG-B</b>      |
|                                      |                                                                  |                                     |                                                                                            | DATED: <b>12/11/2014</b> |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY  
25  
CHECKED

CITY AND STATE  
NEWPORT, OR

ELEVATION: 160 TDZE: 158  
AIRPORT NAME:  
NEWPORT MUNI

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 34, AMDT 1  
21 JULY 2016

SUP:  
AMDT: ORIG-B  
DATED: 12/11/2014

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KONP

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| BOSVE      | 010        | BOSVE       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| BOSVE      | 020        | TULBE       | TF          | FB    | 1.0 | 019.0      |            |       |             |               |                | AA 04000                           |                                       | EE B                       |
| ONP        | 010        | ONP         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ONP        | 020        | TULBE       | TF          | FO    | 2.0 | 151.4      |            |       |             |               |                | AA 04000                           |                                       | EY                         |
| ONP        | 030        | TULBE       | HF          | FO    |     | 331.5      |            |       | L           |               |                | AA 04000                           |                                       | EE A                       |
|            | 010        | TULBE       | IF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E I                        |
|            | 011        | WILIK       | TF          | FB    | 1.0 | 331.5      |            |       |             |               |                | AA 02700                           |                                       | E                          |
|            | 020        | JONLA       | TF          | FB    | 1.0 | 331.4      |            |       |             | AVAVE         |                | AA 02100                           |                                       | E F                        |
|            | 030        | AVAVE       | TF          | FO    | 0.3 | 331.1      |            | 3.50  |             |               |                | AT 00400                           |                                       | EY M                       |
|            | 040        |             | CA          | FB    |     | 331.1      |            |       |             |               |                | AA 02500                           |                                       | M                          |
|            | 050        | TULBE       | DF          | FO    |     |            |            |       | L           |               |                | AA 04000                           |                                       | EY                         |
|            | 060        | TULBE       | HM          | FO    |     | 331.5      |            |       | L           |               |                | AA 04000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ONP        | N443431.26 | W1240338.14 |
| BOSVE      | N440934.66 | W1240559.14 |
| AVAVE      | N443352.38 | W1240328.48 |
| JONLA      | N442925.51 | W1240155.78 |
| TULBE      | N441759.60 | W1235805.19 |
| WILIK      | N442434.57 | W1240017.43 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW34   | N443422.35            | W1240330.45            | 00156                  | 58               |

QUALITY  
25  
CHECKED

|                                      |                                        |                      |                                                  |                          |
|--------------------------------------|----------------------------------------|----------------------|--------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>NEWPORT, OR</b> | ELEVATION: <b>160</b> <b>TDZE: 158</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:       | SUP:                     |
|                                      | AIRPORT NAME:<br><b>NEWPORT MUNI</b>   | <b>RNAV</b>          | <b>RNAV (GPS) RWY 34, AMDT 1</b><br>21 JULY 2016 | AMDT: <b>ORIG-B</b>      |
|                                      |                                        |                      |                                                  | DATED: <b>12/11/2014</b> |

|                                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------|---------|-----------|----------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|-----|-----|---------|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |     |                                                     |         |           |                            |                             | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| TERMINAL ROUTES                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            | MISSED APPROACH                                                                                                                                                                          |       |                    |     |     |         |
| FROM                                                                                                                                                                    |     | TO                                                  |         |           | COURSE AND DISTANCE        |                             |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE                                                                 |            | MAP: CEMIX/ONP 0.69 DME FIX                                                                                                                                                              |       |                    |     |     |         |
| ONP VORTAC                                                                                                                                                              |     | FOSTI/10.20 DME                                     |         |           | 029.27 / 10.20             |                             |                                                                                                                                                                                                                                                                                                                                                                      | 3200                                                                     |            | CLIMB TO 3000 THEN CLIMBING RIGHT TURN 4000 DIRECT ONP VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.                                                                                  |       |                    |     |     |         |
| LANKE/16.00 DME                                                                                                                                                         |     | FOSTI/10.20 DME                                     |         |           | 209.27 / 5.80 (ONP R-029)  |                             |                                                                                                                                                                                                                                                                                                                                                                      | 4000                                                                     |            |                                                                                                                                                                                          |       |                    |     |     |         |
| COKLA/16.00 DME (IAF)                                                                                                                                                   |     | HAVOT/10.20 DME                                     |         |           | 169.51 / 5.80 (ONP R-350)  |                             |                                                                                                                                                                                                                                                                                                                                                                      | 2700                                                                     |            |                                                                                                                                                                                          |       |                    |     |     |         |
| FOSTI/10.20 DME CCW (IAF)                                                                                                                                               |     | HAVOT/10.20 DME                                     |         |           | 10.20 DME ARC (ONP LR-001) |                             |                                                                                                                                                                                                                                                                                                                                                                      | 2700                                                                     |            |                                                                                                                                                                                          |       |                    |     |     |         |
| HAVOT/10.20 DME (IF)                                                                                                                                                    |     | FINIX/6.10 DME                                      |         |           | 169.51 / 4.10 (ONP R-350)  |                             |                                                                                                                                                                                                                                                                                                                                                                      | 2100                                                                     |            |                                                                                                                                                                                          |       |                    |     |     |         |
| FINIX/6.10 DME                                                                                                                                                          |     | COBIL/4.18 DME                                      |         |           | 169.51 / 1.92 (ONP R-350)  |                             |                                                                                                                                                                                                                                                                                                                                                                      | 1500                                                                     |            | ADDITIONAL FLIGHT DATA:<br><br>HOLD S, RT, 349.00 INBOUND.<br>CHART FAS OBST: 393 TREE 443512N/1240236W<br>CHART ONP R-029 AT FOSTI.<br>COBIL TO RW16: 3.50/50.7.<br>CHART CIRCLING ICON |       |                    |     |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                    |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| 2. PROFILE STARTS AT HAVOT/10.20 DME                                                                                                                                    |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| 3. FAC 169.51 FAF COBIL/4.18 DME _____ DIST FAF TO MAP _____ THLD 3.49                                                                                                  |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| 4. MIN. ALT HAVOT 2700, FINIX 2100, COBIL 1500, WUMBI/2.80 DME 1120                                                                                                     |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| 8. MSA FROM: ONP VORTAC 010-190 5300, 190-280 2000, 280-010 4600                                                                                                        |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            | MAG VAR: 15E                                                                                                                                                                             |       | EPOCH YEAR: 2020   |     |     |         |
| MINIMUMS                                                                                                                                                                |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                         |     |                                                     |         |           |                            |                             | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |                                                                          | STANDARD @ |                                                                                                                                                                                          |       |                    |     |     |         |
| CATEGORY =====>                                                                                                                                                         | A   |                                                     |         | B         |                            |                             | C                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |            | D                                                                                                                                                                                        |       |                    | E   |     |         |
|                                                                                                                                                                         | MDA | VIS                                                 | HAT/HAA | MDA       | VIS                        | HAT/HAA                     | MDA                                                                                                                                                                                                                                                                                                                                                                  | VIS                                                                      | HAT/HAA    | MDA                                                                                                                                                                                      | VIS   | HAT/HAA            | MDA | VIS | HAT/HAA |
| S-16                                                                                                                                                                    | 720 | 3/4                                                 | 568     | 720       | 1                          | 568                         | 720                                                                                                                                                                                                                                                                                                                                                                  | 1 1/4                                                                    | 568        | 720                                                                                                                                                                                      | 1 1/4 | 568                |     |     |         |
| CIRCLING                                                                                                                                                                | 880 | 1                                                   | 720     | 880       | 1                          | 720                         | 940                                                                                                                                                                                                                                                                                                                                                                  | 2 1/4                                                                    | 780        | 1220                                                                                                                                                                                     | 3     | 1060               |     |     |         |
|                                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
|                                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
|                                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| NOTES:                                                                                                                                                                  |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| CHART NOTE: DME REQUIRED.                                                                                                                                               |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            | @ CAT C 800-2 1/4, CAT D 1100-3                                                                                                                                                          |       |                    |     |     |         |
| CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.                                                                                                |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            | @ NA WHEN LOCAL WEATHER NOT AVAILABLE.                                                                                                                                                   |       |                    |     |     |         |
| CHART PLANVIEW NOTE: DME REQUIRED.                                                                                                                                      |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            | QUALITY<br>25<br>CHECKED                                                                                                                                                                 |       |                    |     |     |         |
| CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).                                                                             |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| (CONTINUED ON PAGE 2)                                                                                                                                                   |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       |                    |     |     |         |
| CITY AND STATE<br>NEWPORT, OR                                                                                                                                           |     | ELEVATION: 160<br>AIRPORT NAME:<br><br>NEWPORT MUNI |         | TDZE: 152 |                            | FACILITY IDENTIFIER:<br>ONP |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>VOR RWY 16, AMDT 9, 07/21/2016 |            |                                                                                                                                                                                          |       | SUP VOR/DME RWY 16 |     |     |         |
|                                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       | AMDT 8B            |     |     |         |
|                                                                                                                                                                         |     |                                                     |         |           |                            |                             |                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |            |                                                                                                                                                                                          |       | DATE 12/11/2014    |     |     |         |

**VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):**

**CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TILLAMOOK ALTIMETER SETTING;  
INCREASE ALL MDA 140 FEET; INCREASE S-16 CAT C VISIBILITY 3/8 MILE AND INCREASE CIRCLING CAT A/B/C  
VISIBILITY 1/2 MILE.**

**CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-16 CAT A/B VISIBILITY TO 1 MILE, AND CAT C TO 1 5/8  
MILE.**

**CHART NOTE: FOR INOPERATIVE MALSR WHEN USING TILLAMMOK ALTIMETER SETTING, INCREASE S-16 CAT A/B  
VISIBILITY TO 1 MILE, AND CAT C TO 2 MILE.**

QUALITY  
25  
CHECKED

CITY AND STATE

NEWPORT, OR

ELEVATION: 160

TDZE: 152

AIRPORT NAME:

NEWPORT MUNI

FACILITY  
IDENTIFIER:

ONP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 16, AMDT 9, 07/21/2016

SUP: VOR/DME RWY 16

AMDT: 8B

DATED: 12/11/2014

**VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

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QUALITY  
25  
CHECKED

CITY AND STATE

NEWPORT, OR

ELEVATION: 160

TDZE: 152

AIRPORT NAME:

NEWPORT MUNI

FACILITY  
IDENTIFIER:

ONP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 16, AMDT 9, 07/21/2016

SUP: VOR/DME RWY 16

AMDT: 8B

DATED: 12/11/2014

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## VOR STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.23

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KONP

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| COKLA      | 010        | COKLA       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| COKLA      | 020        | HAVOT       | TF          | FB    |     |            |            |       |             |               |                | AA 02700                           |                                       | EE B                       |
| LANKE      | 010        | LANKE       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E                          |
| LANKE      | 020        | FOSTI       | TF          | FB    |     |            |            |       |             |               |                | AA 04000                           |                                       | E A                        |
| LANKE      | 030        | HAVOT       | AF          | FB    |     | 029.3      | ONP        |       | L           |               |                | AA 02700                           |                                       | EE B                       |
| ONP        | 010        | ONP         | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | V                          |
| ONP        | 020        | FOSTI       | TF          | FB    |     |            |            |       |             |               |                | AA 03200                           |                                       | E A                        |
| ONP        | 030        | HAVOT       | AF          | FB    |     | 029.3      | ONP        |       | L           |               |                | AA 02700                           |                                       | EE B                       |
|            | 010        | HAVOT       | IF          | FB    |     |            | ONP        |       |             |               |                | AA 02700                           |                                       | E I                        |
|            | 011        | FINIX       | CF          | FB    |     | 169.5      | ONP        |       |             |               |                | AA 02100                           |                                       | E                          |
|            | 020        | COBIL       | CF          | FB    |     | 169.5      | ONP        |       |             | ONP           |                | AA 01500                           |                                       | E F                        |
|            | 021        | WUMBI       | CF          | FB    |     | 169.5      | ONP        | 3.50  |             |               |                | AA 01120                           |                                       | E S                        |
|            | 030        | CEMIX       | CF          | FO    |     | 169.5      | ONP        | 3.50  |             |               |                | AT 00202                           |                                       | EY M                       |
|            | 040        |             | CA          | FB    |     | 169.5      |            |       |             |               |                | AA 03000                           |                                       | M                          |
|            | 050        | ONP         | DF          | FO    |     |            |            |       | R           |               |                | AA 04000                           |                                       | VY                         |
|            | 060        | ONP         | HM          | FO    |     | 349.0      |            |       | R           |               |                | AA 04000                           |                                       | VE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| ONP        | N443431.26 | W1240338.14 |
| COKLA      | N445028.26 | W1240151.99 |
| FOSTI      | N444149.03 | W1235339.23 |
| LANKE      | N444557.61 | W1234757.61 |
| CEMIX      | N443512.63 | W1240333.53 |
| COBIL      | N443841.40 | W1240310.50 |
| FINIX      | N444036.11 | W1240257.81 |
| HAVOT      | N444441.33 | W1240230.62 |
| WUMBI      | N443718.73 | W1240319.64 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW16   | N443512.64            | W1240333.74            | 00151                  | 50.7             |

QUALITY  
12  
CHECKED

CITY AND STATE  
NEWPORT, OR

ELEVATION: 160 TDZE: 152  
AIRPORT NAME:  
NEWPORT MUNI

FACILITY  
IDENTIFIER:  
ONP

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
VOR RWY 16, AMDT 9, 07/21/2016

SUP: VOR/DME RWY 16

AMDT: 8B

DATED: 12/11/2014

|                                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|-------|---------------------|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------------------------------|-----|-----|---------|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |  |                                                     |       |                     |       |       | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| TERMINAL ROUTES                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     | MISSED APPROACH                                                                                                                                             |      |     |                                  |     |     |         |
| FROM                                                                                                                                                                    |  | TO                                                  |       | COURSE AND DISTANCE |       |       |                                                                                                                                                                                                                                                                                                                                                                      | ALTITUDE |                                                                     | MAP: ONP VORTAC                                                                                                                                             |      |     |                                  |     |     |         |
|                                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     | CLIMB TO 2900 THEN CLIMBING RIGHT TURN TO 4000 DIRECT ONP VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.                                                  |      |     |                                  |     |     |         |
|                                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     | ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 349.00 INBOUND.<br>CHART CIRCLING ICON.<br>PROCEDURE ALIGNED TO ONP VORTAC<br>FAS OBSTACLE: AAO 960 441516N/1240255W |      |     |                                  |     |     |         |
| 1. PT <u>L</u> SIDE OF COURSE <u>326.00</u> OUTBOUND <u>2400</u> FT WITHIN <u>10</u> MILES OF <u>ONP VORTAC</u> (IAF)                                                   |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| 2.                                                                                                                                                                      |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| 3. FAC <u>146.00</u> FAF _____ DIST FAF TO MAP _____ THLD _____                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| 4. MIN. ALT _____                                                                                                                                                       |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| 8. MSA FROM: <u>ONP VORTAC 010-190 5300, 190-280 2000, 280-010 4600</u>                                                                                                 |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     | MAG VAR: <u>15E</u>                                                                                                                                         |      |     | EPOCH YEAR: <u>2020</u>          |     |     |         |
| MINIMUMS                                                                                                                                                                |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                         |  |                                                     |       |                     |       |       | ALTERNATE: <u>N A</u>                                                                                                                                                                                                                                                                                                                                                |          | @ _____                                                             |                                                                                                                                                             |      |     |                                  |     |     |         |
| CATEGORY =====>                                                                                                                                                         |  | A                                                   |       |                     | B     |       |                                                                                                                                                                                                                                                                                                                                                                      | C        |                                                                     |                                                                                                                                                             | D    |     |                                  | E   |     |         |
|                                                                                                                                                                         |  | MDA                                                 | VIS   | HAT/HAA             | MDA   | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | MDA      | VIS                                                                 | HAT/HAA                                                                                                                                                     | MDA  | VIS | HAT/HAA                          | MDA | VIS | HAT/HAA |
| CIRCLING                                                                                                                                                                |  | 1060                                                | 1 1/4 | 900                 | 1060  | 1 1/4 | 900                                                                                                                                                                                                                                                                                                                                                                  | 1060     | 2 3/4                                                               | 900                                                                                                                                                         | 1220 | 3   | 1060                             |     |     |         |
|                                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
|                                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
|                                                                                                                                                                         |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| NOTES:                                                                                                                                                                  |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     |                                                                                                                                                             |      |     |                                  |     |     |         |
| CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TILLAMOOK ALTIMETER SETTING: INCREASE ALL MDA 140 FT, INCREASE CIRCLING CAT B AND C VISIBILITY 1/4 MILE.     |  |                                                     |       |                     |       |       |                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                     | @ CAT A, B 900-2, CAT C 900-2 3/4, CAT D 1100-3<br>@ NA WHEN LOCAL WEATHER NOT AVAILABLE.                                                                   |      |     |                                  |     |     |         |
| CITY AND STATE<br>NEWPORT, OR                                                                                                                                           |  | ELEVATION: 160<br>AIRPORT NAME:<br><br>NEWPORT MUNI |       |                     | TDZE: |       | FACILITY IDENTIFIER:<br>ONP                                                                                                                                                                                                                                                                                                                                          |          | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>VOR-A, AMDT 5, 07/21/2016 |                                                                                                                                                             |      |     | SUP<br>AMDT 4<br>DATE 12/25/2003 |     |     |         |





**VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

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QUALITY  
25  
CHECKED

CITY AND STATE

NEWPORT, OR

ELEVATION: 160

TDZE:

AIRPORT NAME:

NEWPORT MUNI

FACILITY  
IDENTIFIER:

ONP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR-A, AMDT 5, 07/21/2016

SUP:

AMDT: 4

DATED: 12/25/2003

|                                                                                                                                                                                         |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|-----------------------------------------------------------|-------|---------|-----------------------------------------------------------------------------|------------------------------|---------|----------------------------------------------------------------------------------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                      |        |       |         |                                                           |       |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                         |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               | MISSED APPROACH               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FROM                                                                                                                                                                                    |        |       |         | TO                                                        |       |         | COURSE AND DISTANCE                                                         |                              |         |                                                                                  | ALTITUDE |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW01<br><br>CLIMB TO 4500 DIRECT EVEPE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4500.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD N, RT, 187.08 INBOUND.<br>CHART FAS OBST: 1684 TREE 413555N/0794338W<br>DISTANCE TO THLD FROM 293 HAT: 0.87 NM.<br>WAAS CHANNEL # 45639<br>REFERENCE PATH ID: W01A<br>CHART CIRCLING ICON.<br>CHART FRANKLIN AWOS<br>LTP HAE: 434 M |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| KARBE (IAF)                                                                                                                                                                             |        |       |         | ZATNO (NOPT) (FB)                                         |       |         | 077.01 / 7.00                                                               |                              |         |                                                                                  | 4500     |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| JALVI (IAF)                                                                                                                                                                             |        |       |         | ZATNO (NOPT) (FB)                                         |       |         | 297.20 / 7.00                                                               |                              |         |                                                                                  | 4500     |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| ZATNO (IF/IAF)                                                                                                                                                                          |        |       |         | HOLSA (FB)                                                |       |         | 007.10 / 6.00                                                               |                              |         |                                                                                  | 3200     |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| HOLSA (FAF)                                                                                                                                                                             |        |       |         | CAXUX/3.06 NM TO RW01 (FB)                                |       |         | 007.09 / 3.06                                                               |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CAXUX/3.06 NM TO RW01                                                                                                                                                                   |        |       |         | RW01 (MAP) (FO)                                           |       |         | 007.09 / 2.00                                                               |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RW01 (MAP)                                                                                                                                                                              |        |       |         | 1864 MSL                                                  |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1864 MSL                                                                                                                                                                                |        |       |         | EVEPE (FO)                                                |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                    |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               | MAG VAR: 10W EPOCH YEAR: 2015 |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 2. HOLD S ZATNO, RT, 007.10 INBOUND, 4500 FT. IN LIEU OF PT (IAF)                                                                                                                       |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 3. FAC: 007.09 FAF: HOLSA DIST FAF TO MAP: 5.06 THLD: 5.06                                                                                                                              |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 4. MIN. ALT: ZATNO 4500, HOLSA 3200, CAXUX/3.06 NM TO RW01 2220*                                                                                                                        |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                          |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 6. MIN GS INCPT: 3200 GS ALT AT: HOLSA 3200 OM: _____ MM: _____ IM: _____                                                                                                               |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR                                                                                                                                           |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 8. MSA FROM: _____                                                                                                                                                                      |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                         |        |       |         |                                                           |       |         | ALTERNATE: N A X                                                            |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                         |        | A     |         |                                                           | B     |         |                                                                             | C                            |         |                                                                                  | D        |         |                                                                                                                                                                                                                                                                                                                                                                                               | E                             |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                         | DH/MDA | VIS   | HAT/HAA | DH/MDA                                                    | VIS   | HAT/HAA | DH/MDA                                                                      | VIS                          | HAT/HAA | DH/MDA                                                                           | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                        | VIS                           | HAT/HAA                     |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                  | 1864   | 1     | 293     | 1864                                                      | 1     | 293     | 1864                                                                        | 1                            | 293     | 1864                                                                             | 1        | 293     |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                            | 1926   | 1 1/4 | 355     | 1926                                                      | 1 1/4 | 355     | 1926                                                                        | 1 1/4                        | 355     | 1926                                                                             | 1 1/4    | 355     |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                | 1980   | 1     | 409     | 1980                                                      | 1     | 409     | 1980                                                                        | 1 1/8                        | 409     | 1980                                                                             | 1 1/8    | 409     |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                         |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                | 2100   | 1     | 500     | 2100                                                      | 1     | 500     | 2200                                                                        | 1 1/2                        | 600     | 2280                                                                             | 2 1/4    | 680     |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                         |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                         |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: BARO-VNAV NA.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.<br>*LNAV ONLY<br>(CONTINUED ON PAGE 2) |        |       |         |                                                           |       |         |                                                                             |                              |         |                                                                                  |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               |                             |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CITY AND STATE<br>TITUSVILLE, PA                                                                                                                                                        |        |       |         | ELEVATION: 1600 TDZE: 1571<br>AIRPORT NAME:<br>TITUSVILLE |       |         |                                                                             | FACILITY IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 1, ORIG<br>21 JULY 2016 |          |         |                                                                                                                                                                                                                                                                                                                                                                                               |                               | SUP:<br>AMDT: NONE<br>DATED |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: NIGHT LANDING: RWY 1 NA.

CHART NOTE: USE FRANKLIN ALIMETER SETTING. WHEN NOT RECEIVED, USE PORT MEADE ALTIMETER SETTING AND INCREASE LPV DA TO 1899, LNAV/VNAV DA TO 1961, AND ALL MDA 40 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE, INCREASE LNAV CATS C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 297/30 CW 077/30 (NOPT) | ZATNO (IF/IAF) (FB) | 4500 |
| 2. | 077/30 CW 187/30        | KARBE (IAF) (FB)    | 4500 |
| 3. | 187/30 CW 297/30        | JALVI (IAF) (FB)    | 4500 |

QUALITY  
6  
CHECKED

|                                  |                                                           |                                 |                                                                                  |            |
|----------------------------------|-----------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------|------------|
| CITY AND STATE<br>TITUSVILLE, PA | ELEVATION: 1600 TDZE: 1571<br>AIRPORT NAME:<br>TITUSVILLE | FACILITY<br>IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 1, ORIG<br>21 JULY 2016 | SUP:       |
|                                  |                                                           |                                 |                                                                                  | AMDT: NONE |
|                                  |                                                           |                                 |                                                                                  | DATED:     |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | 6G1           |
| RUNWAY                                   | RW01          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W01A          |
| LTP/FTP LATITUDE                         | 413607.5655N  |
| LTP/FTP LONGITUDE                        | 0794427.1275W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +04340        |
| FPAP LATITUDE                            | 413736.5940N  |
| FPAP LONGITUDE                           | 0794433.1595W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00055.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1256          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>58D89018  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K6     |
| LTP ORTHOMETRIC HEIGHT  | +04673 |
| FPAP ORTHOMETRIC HEIGHT | +04673 |

QUALITY  
6  
CHECKED

|                                      |                                                    |                                  |                                     |                                                                                      |            |
|--------------------------------------|----------------------------------------------------|----------------------------------|-------------------------------------|--------------------------------------------------------------------------------------|------------|
| CITY AND STATE<br><br>TITUSVILLE, PA | ELEVATION: 1600<br>AIRPORT NAME:<br><br>TITUSVILLE | TDZE: 1571<br><br><br>TITUSVILLE | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 1, ORIG<br>21 JULY 2016 | SUP:       |
|                                      |                                                    |                                  |                                     |                                                                                      | AMDT: NONE |
|                                      |                                                    |                                  |                                     |                                                                                      | DATED:     |

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                |                        |                                                                                                                   |     |                                                                                             |            |       |                                                 |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - 6G1</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>JALVI</td><td>010</td><td>JALVI</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>JALVI</td><td>020</td><td>ZATNO</td><td>TF</td><td>FB</td><td>1.0</td><td>297.2</td><td></td><td></td><td></td><td></td><td></td><td>AA 04500</td><td></td><td>EE B</td></tr> <tr><td>KARBE</td><td>010</td><td>KARBE</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E A</td></tr> <tr><td>KARBE</td><td>020</td><td>ZATNO</td><td>TF</td><td>FB</td><td>1.0</td><td>077.0</td><td></td><td></td><td></td><td></td><td></td><td>AA 04500</td><td></td><td>EE B</td></tr> <tr><td>ZATNO</td><td>010</td><td>ZATNO</td><td>HF</td><td>FO</td><td></td><td>007.1</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 04500</td><td></td><td>EE A</td></tr> <tr><td></td><td>010</td><td>ZATNO</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04500</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>HOLSA</td><td>TF</td><td>FB</td><td>1.0</td><td>007.1</td><td></td><td></td><td></td><td></td><td></td><td>AA 03200</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>CAXUX</td><td>TF</td><td>FB</td><td>0.3</td><td>007.1</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 02220 GS 02225</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW01</td><td>TF</td><td>FO</td><td>0.3</td><td>007.1</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 01588</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>007.1</td><td></td><td></td><td></td><td></td><td></td><td>AA 01864</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>EVEPE</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 04500</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>EVEPE</td><td>HM</td><td>FO</td><td></td><td>187.1</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 04500</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                             | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |  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| JALVI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                             |                                       | EE B                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |  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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| EVEPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| JALVI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| KARBE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| ZATNO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                         | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                                                                                                  |     |                                                                                             |            |       |                                                 |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |  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| RW01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| CITY AND STATE<br><b>TITUSVILLE, PA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | ELEVATION: <b>1600</b> <b>TDZE: 1571</b><br>AIRPORT NAME:<br><b>TITUSVILLE</b> |                        | FACILITY IDENTIFIER:<br><div style="text-align: center; border: 1px solid black; padding: 2px;"><b>RNAV</b></div> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 1, ORIG</b><br>21 JULY 2016 |            |       | SUP:<br><hr/> AMDT: <b>NONE</b><br><hr/> DATED: |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |  |  |  |  |  |  |  |  |     |       |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|-----------------------------------------------------------|-----|---------|-----------------------------------------------------------------------------|---------------------------------|---------|-----------------------------------------------------------------------------------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                          |        |     |         |                                                           |     |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           | MISSED APPROACH |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                        |        |     |         | TO                                                        |     |         | COURSE AND DISTANCE                                                         |                                 |         |                                                                                   | ALTITUDE |         | LP: RW19<br>LNAV: RW19                                                                                                                                                                                                                                                                                                                                                    |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| YOBUK (IAF)                                                                                                                                                                                                                                                                                                                                                 |        |     |         | EVEPE (NOPT) (FB)                                         |     |         | 257.18 / 7.00                                                               |                                 |         |                                                                                   | 4500     |         | CLIMB TO 4500 DIRECT ZATNO AND HOLD.                                                                                                                                                                                                                                                                                                                                      |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| HOKSU (IAF)                                                                                                                                                                                                                                                                                                                                                 |        |     |         | EVEPE (NOPT) (FB)                                         |     |         | 116.98 / 7.00                                                               |                                 |         |                                                                                   | 4500     |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| EVEPE (IF/IAF)                                                                                                                                                                                                                                                                                                                                              |        |     |         | CEGIS (FB)                                                |     |         | 187.08 / 6.00                                                               |                                 |         |                                                                                   | 3200     |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CEGIS (FAF)                                                                                                                                                                                                                                                                                                                                                 |        |     |         | CADBI/2.00 NM TO RW19 (FB)                                |     |         | 187.09 / 2.90                                                               |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CADBI/2.00 NM TO RW19                                                                                                                                                                                                                                                                                                                                       |        |     |         | RW19 (MAP) (FO)                                           |     |         | 187.09 / 2.00                                                               |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| RW19 (MAP)                                                                                                                                                                                                                                                                                                                                                  |        |     |         | 2000 MSL                                                  |     |         | 187.09                                                                      |                                 |         |                                                                                   | 4500     |         | ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 007.10 INBOUND.<br>CHART FAS OBST: 1718 TREE 413735N/0794448W<br>CHART FAS OBST: 1779 TREE 413852N/0794524W<br>OBST: 1849 AAO 414151N/0794426W<br>OBST: 1877 AAO 414154N/0794430W<br>WAAS CHANNEL # 99738<br>REFERENCE PATH ID: W19A<br>CEGIS TO RW19: 3.00/40.<br>CHART CIRCLING ICON.<br>CHART FRANKLIN AWOS<br>LTP HAE: 454.3 M |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 2000 MSL                                                                                                                                                                                                                                                                                                                                                    |        |     |         | ZATNO (FO)                                                |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                        |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 2. HOLD N EVEPE, RT, 187.08 INBOUND, 4500 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                           |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 3. FAC: 187.09 FAF: CEGIS DIST FAF TO MAP: 4.90 THLD: 4.90                                                                                                                                                                                                                                                                                                  |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 4. MIN. ALT: EVEPE 4500, CEGIS 3200, CADBI/2.00 NM TO RW19 2260                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                              |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                       |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR                                                                                                                                                                                                                                                                                                                   |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 8. MSA FROM: _____                                                                                                                                                                                                                                                                                                                                          |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| MAG VAR: 10W EPOCH YEAR: 2015                                                                                                                                                                                                                                                                                                                               |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                    |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         | ALTERNATE: N A X                                                            |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                             |        | A   |         |                                                           | B   |         |                                                                             | C                               |         |                                                                                   | D        |         |                                                                                                                                                                                                                                                                                                                                                                           | E               |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                             | DH/MDA | VIS | HAT/HAA | DH/MDA                                                    | VIS | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                            | VIS      | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                    | VIS             | HAT/HAA |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LP MDA                                                                                                                                                                                                                                                                                                                                                      | 2020   | 1   | 420     | 2020                                                      | 1   | 420     | 2020                                                                        | 1 1/8                           | 420     | 2020                                                                              | 1 1/8    | 420     |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                    | 2080   | 1   | 480     | 2080                                                      | 1   | 480     | 2080                                                                        | 1 3/8                           | 480     | 2080                                                                              | 1 3/8    | 480     |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                    | 2100   | 1   | 500     | 2100                                                      | 1   | 500     | 2200                                                                        | 1 1/2                           | 600     | 2280                                                                              | 2 1/4    | 680     |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                             |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>CHART NOTE: USE FRANKLIN ALTIMETER SETTING. WHEN NOT RECEIVED, USE PORT MEADE ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET; INCREASE LP CATS C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE.<br>CHART NOTE: NIGHT LANDING: RWY 1 NA. |        |     |         |                                                           |     |         |                                                                             |                                 |         |                                                                                   |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                             |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CITY AND STATE<br>TITUSVILLE, PA                                                                                                                                                                                                                                                                                                                            |        |     |         | ELEVATION: 1600 TDZE: 1600<br>AIRPORT NAME:<br>TITUSVILLE |     |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 19, ORIG<br>21 JULY 2016 |          |         |                                                                                                                                                                                                                                                                                                                                                                           |                 |         | SUP:<br>AMDT: NONE<br>DATED |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 117/30 CW 257/30 (NOPT) | EVEPE (IF/IAF) (FB) | 4500 |
| 2. | 257/30 CW 007/30        | YOBUK (IAF) (FB)    | 4500 |
| 3. | 007/30 CW 117/30        | HOKSU (IAF) (FB)    | 4500 |

QUALITY  
6  
CHECKED

CITY AND STATE  
TITUSVILLE, PA

ELEVATION: 1600 TDZE: 1600  
AIRPORT NAME:  
TITUSVILLE

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 19, ORIG  
21 JULY 2016

SUP:  
AMDT: NONE  
DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | 6G1           |
| RUNWAY                                   | RW19          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W19A          |
| LTP/FTP LATITUDE                         | 413655.9230N  |
| LTP/FTP LONGITUDE                        | 0794430.4030W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +04543        |
| FPAP LATITUDE                            | 413526.8950N  |
| FPAP LONGITUDE                           | 0794424.3750W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1256          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 0.0           |
| <br><u>CRC REMAINDER</u>                 | <br>EF2B03D2  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K6     |
| LTP ORTHOMETRIC HEIGHT  | +04876 |
| FPAP ORTHOMETRIC HEIGHT | +04876 |

QUALITY  
6  
CHECKED

|                                      |                                                    |            |                                     |                                                                                       |            |
|--------------------------------------|----------------------------------------------------|------------|-------------------------------------|---------------------------------------------------------------------------------------|------------|
| CITY AND STATE<br><br>TITUSVILLE, PA | ELEVATION: 1600<br>AIRPORT NAME:<br><br>TITUSVILLE | TDZE: 1600 | FACILITY<br>IDENTIFIER:<br><br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br><br>RNAV (GPS) RWY 19, ORIG<br>21 JULY 2016 | SUP:       |
|                                      |                                                    |            |                                     |                                                                                       | AMDT: NONE |
|                                      |                                                    |            |                                     |                                                                                       | DATED:     |



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 6G1

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| EVEPE      | 010        | EVEPE       | HF          | FO    |     | 187.1      |            |       | R           |               |                | AA 04500                           |                                       | EE A                       |
| HOKSU      | 010        | HOKSU       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| HOKSU      | 020        | EVEPE       | TF          | FB    | 1.0 | 117.0      |            |       |             |               |                | AA 04500                           |                                       | EE B                       |
| YOBUK      | 010        | YOBUK       | IF          | FB    |     |            |            |       |             |               |                |                                    |                                       | E A                        |
| YOBUK      | 020        | EVEPE       | TF          | FB    | 1.0 | 257.2      |            |       |             |               |                | AA 04500                           |                                       | EE B                       |
|            | 010        | EVEPE       | IF          | FB    |     |            |            |       |             |               |                | AA 04500                           |                                       | E I                        |
|            | 020        | CEGIS       | TF          | FB    | 1.0 | 187.1      |            |       |             |               |                | AA 03200                           |                                       | E F                        |
|            | 021        | CADBI       | TF          | FB    | 0.3 | 187.1      |            | 3.00  |             |               |                | AA 02260 GS 02277                  |                                       | E S                        |
|            | 030        | RW19        | TF          | FO    | 0.3 | 187.1      |            | 3.00  |             |               |                | AT 01640                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 187.1      |            |       |             |               |                | AA 02000                           |                                       | M                          |
|            | 050        | ZATNO       | DF          | FO    |     |            |            |       |             |               |                | AA 04500                           |                                       | EY                         |
|            | 060        | ZATNO       | HM          | FO    |     | 007.1      |            |       | R           |               |                | AA 04500                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CADBI      | N413855.83 | W0794438.53 |
| CEGIS      | N414149.61 | W0794450.32 |
| EVEPE      | N414749.31 | W0794514.79 |
| HOKSU      | N414952.37 | W0795411.83 |
| YOBUK      | N415032.58 | W0793637.20 |
| ZATNO      | N412504.42 | W0794342.35 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW19   | N413655.92            | W0794430.40            | 01600                  | 40               |

QUALITY  
6  
CHECKED

|                                         |                                          |                      |                                                |                   |
|-----------------------------------------|------------------------------------------|----------------------|------------------------------------------------|-------------------|
| CITY AND STATE<br><b>TITUSVILLE, PA</b> | ELEVATION: <b>1600</b> TDZE: <b>1600</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:     | SUP:              |
|                                         | AIRPORT NAME:<br><b>TITUSVILLE</b>       | <b>RNAV</b>          | <b>RNAV (GPS) RWY 19, ORIG</b><br>21 JULY 2016 | AMDT: <b>NONE</b> |
|                                         |                                          |                      |                                                | DATED:            |

|                                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------|---------|-----|-------|---------------------|-----------------------------|-----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-------------------------|-----|--------------------------|--|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>GPS OR VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |     |                                                    |         |     |       |                     |                             |     |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |         |                         |     |                          |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| FROM                                                                                                                                                                           |     |                                                    | TO      |     |       | COURSE AND DISTANCE |                             |     |         | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |     |         | ADDITIONAL FLIGHT DATA: |     |                          |  |  |  |  |
|                                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
|                                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                           |     |                                                    |         |     |       |                     |                             |     |         | MAG VAR: _____ EPOCH YEAR: _____                                                                                                                                                                                                                                                                                                                                     |     |         |                         |     |                          |  |  |  |  |
| 2. _____                                                                                                                                                                       |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| 3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____                                                                                                                        |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| 4. MIN. ALT _____                                                                                                                                                              |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| 8. MSA FROM: _____                                                                                                                                                             |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |     |         |                         |     |                          |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                |     | A                                                  |         |     | B     |                     |                             | C   |         |                                                                                                                                                                                                                                                                                                                                                                      | D   |         |                         | E   |                          |  |  |  |  |
|                                                                                                                                                                                | MDA | VIS                                                | HAT/HAA | MDA | VIS   | HAT/HAA             | MDA                         | VIS | HAT/HAA | MDA                                                                                                                                                                                                                                                                                                                                                                  | VIS | HAT/HAA | MDA                     | VIS | HAT/HAA                  |  |  |  |  |
|                                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
|                                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
|                                                                                                                                                                                |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| NOTES:                                                                                                                                                                         |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| PROCEDURE CANCELED EFFECTIVE 21 JULY 2016                                                                                                                                      |     |                                                    |         |     |       |                     |                             |     |         |                                                                                                                                                                                                                                                                                                                                                                      |     |         |                         |     |                          |  |  |  |  |
| CITY AND STATE<br>TITUSVILLE, PA                                                                                                                                               |     | ELEVATION: 1600<br>AIRPORT NAME:<br><br>TITUSVILLE |         |     | TDZE: |                     | FACILITY IDENTIFIER:<br>FKL |     |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>VOR OR GPS-A, AMDT 5, 10/03/2002                                                                                                                                                                                                                                                                                           |     |         |                         |     | SUP<br>AMDT NONE<br>DATE |  |  |  |  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|-------|-----------------------------------------------------------------------------|--------|---------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------|---------|--------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                            |       | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |        |                                 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | TO                                                         |       | COURSE AND DISTANCE                                                         |        |                                 |         | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |       | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW32<br><br>CLIMB TO 3700 THEN CLIMBING RIGHT TURN TO 6000 DIRECT USETY AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>CHART FAS OBST: 3335 TREE 430928N/1014312W<br>DISTANCE TO THLD FROM 339 HAT: 0.99 NM.<br>WAAS CHANNEL # 77540<br>REFERENCE PATH ID: W32A<br>CHART CIRCLING ICON.<br>CHART PINE RIDGE ASOS.<br>LTP HAE: 979.3 M |        |                                        |         |        |     |         |
| USETY (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | VUGGI (FB)                                                 |       | 320.18 / 6.10                                                               |        |                                 |         | 5000                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| VUGGI (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | JESIP/2.50 NM TO RW32 (FB)                                 |       | 320.13 / 2.78                                                               |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| JESIP/2.50 NM TO RW32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | RW32 (MAP) (FO)                                            |       | 320.13 / 2.50                                                               |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| RW32 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 3700 MSL                                                   |       | 320.13                                                                      |        |                                 |         | 3700                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| 3700 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | USETY (FO)                                                 |       |                                                                             |        |                                 |         | 6000                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD SE USETY, RT, 320.18 INBOUND, 6000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 320.13 FAF: VUGGI DIST FAF TO MAP: 5.28 THLD: 5.28<br>4. MIN. ALT: USETY 6000, VUGGI 5000, JESIP/2.50 NM TO RW32 4100*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 5000 GS ALT AT: VUGGI 5000 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR<br>8. MSA FROM: _____ |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       | MAG VAR: 6E                                                                                                                                                                                                                                                                                                                                                          |        | EPOCH YEAR: 2020                       |         |        |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |       |                                                                             |        |                                 |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |       | X                                                                                                                                                                                                                                                                                                                                                                    |        |                                        |         |        |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | A                                                          |       | B                                                                           |        | C                               |         | D                                                                                                                                                                                                                                                                                                                                                                    |       | E                                                                                                                                                                                                                                                                                                                                                                    |        |                                        |         |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | DH/MDA                                                     | VIS   | HAT/HAA                                                                     | DH/MDA | VIS                             | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS   | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA | VIS                                    | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 3633                                                       | 1 1/4 | 339                                                                         | 3633   | 1 1/4                           | 339     | 3633                                                                                                                                                                                                                                                                                                                                                                 | 1 1/4 | 339                                                                                                                                                                                                                                                                                                                                                                  |        | NA                                     |         |        |     |         |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 3633                                                       | 1 1/4 | 339                                                                         | 3633   | 1 1/4                           | 339     | 3633                                                                                                                                                                                                                                                                                                                                                                 | 1 1/4 | 339                                                                                                                                                                                                                                                                                                                                                                  |        | NA                                     |         |        |     |         |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 3680                                                       | 1     | 386                                                                         | 3680   | 1                               | 386     | 3680                                                                                                                                                                                                                                                                                                                                                                 | 1 1/8 | 386                                                                                                                                                                                                                                                                                                                                                                  |        | NA                                     |         |        |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 3860                                                       | 1     | 565                                                                         | 3920   | 1                               | 625     | 4100                                                                                                                                                                                                                                                                                                                                                                 | 2 1/4 | 805                                                                                                                                                                                                                                                                                                                                                                  |        | NA                                     |         |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| NOTES:<br>CHART NOTE: BARO-VNAV NA.<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>*LNAV ONLY<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                                                                   |  |                                                            |       |                                                                             |        |                                 |         |                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                      |        |                                        |         |        |     |         |
| CITY AND STATE<br>MARTIN, SD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | ELEVATION: 3295 TDZE: 3294<br>AIRPORT NAME:<br>MARTIN MUNI |       |                                                                             |        | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 32, ORIG-A<br>21 JULY 2016                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                      |        | SUP:<br>AMDT: ORIG<br>DATED 05/26/2016 |         |        |     |         |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

\*LNAV ONLY

CHART NOTE: USE PINE RIDGE ALTIMETER SETTING.

| TAA | FROM                    | TO                  | ALT  |
|-----|-------------------------|---------------------|------|
| 1.  | 230/30 CW 050/30 (NOPT) | USETY (IF/IAF) (FB) | 6000 |
| 2.  | 050/30 CW 230/30        | USETY (IF/IAF) (FO) | 6000 |

QUALITY  
16  
CHECKED

|                              |                                                            |                                 |                                                                                     |                   |
|------------------------------|------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|-------------------|
| CITY AND STATE<br>MARTIN, SD | ELEVATION: 3295 TDZE: 3294<br>AIRPORT NAME:<br>MARTIN MUNI | FACILITY<br>IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 32, ORIG-A<br>21 JULY 2016 | SUP:              |
|                              |                                                            |                                 |                                                                                     | AMDT: ORIG        |
|                              |                                                            |                                 |                                                                                     | DATED: 05/26/2016 |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

|                                          |               |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | 9V6           |
| RUNWAY                                   | RW32          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W32A          |
| LTP/FTP LATITUDE                         | 430941.1810N  |
| LTP/FTP LONGITUDE                        | 1014231.7900W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +09793        |
| FPAP LATITUDE                            | 431055.1280N  |
| FPAP LONGITUDE                           | 1014339.7480W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1624          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |

**CRC REMAINDER**

88D642E4

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +09990 |
| FPAP ORTHOMETRIC HEIGHT | +09990 |

QUALITY  
16  
CHECKED

CITY AND STATE

MARTIN, SD

ELEVATION: 3295

TDZE: 3294

AIRPORT NAME:

MARTIN MUNI

 FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 32, ORIG-A

21 JULY 2016

SUP:

AMDT: ORIG

DATED: 05/26/2016

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 9V6

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| USETY      | 010        | USETY       | HF          | FO    |     | 320.2      |            |       | R           |               |                | AA 06000                           |                                       | EE A                       |
|            | 010        | USETY       | IF          | FB    |     |            |            |       |             |               |                | AA 06000                           |                                       | E I                        |
|            | 020        | VUGGI       | TF          | FB    | 1.0 | 320.2      |            |       |             |               |                | AA 05000                           |                                       | E F                        |
|            | 021        | JESIP       | TF          | FB    | 0.3 | 320.1      |            | 3.00  |             |               |                | AA 04100 GS 04113                  |                                       | E S                        |
|            | 030        | RW32        | TF          | FO    | 0.3 | 320.1      |            | 3.00  |             |               |                | AT 03318                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 320.1      |            |       |             |               |                | AA 03700                           |                                       | M                          |
|            | 050        | USETY       | DF          | FO    |     |            |            |       | R           |               |                | AA 06000                           |                                       | EY                         |
|            | 060        | USETY       | HM          | FO    |     | 320.2      |            |       | R           |               |                | AA 06000                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| JESIP      | N430736.67 | W1014037.49 |
| USETY      | N430014.12 | W1013352.51 |
| VUGGI      | N430518.04 | W1013830.41 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW32   | N430941.18            | W1014231.79            | 03278                  | 40               |

QUALITY  
16  
CHECKED

|                                     |                                          |                         |                                                                                |                          |
|-------------------------------------|------------------------------------------|-------------------------|--------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>MARTIN, SD</b> | ELEVATION: <b>3295</b> <b>TDZE: 3294</b> | FACILITY<br>IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 32, ORIG-A</b> | SUP:                     |
|                                     | AIRPORT NAME:<br><b>MARTIN MUNI</b>      | <b>RNAV</b>             | 21 JULY 2016                                                                   | AMDT: <b>ORIG</b>        |
|                                     |                                          |                         |                                                                                | DATED: <b>05/26/2016</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------|---------|--------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|----------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------|-----|---------|--|----------------------------------------|--|------------------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                |         |        |                              | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| <b>TERMINAL ROUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                | <b>MISSED APPROACH</b>                                                                                                                                                                                                                                                                                                                                                                      |                                          |        |     |         |  |                                        |  |                  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | TO                                                             |         |        | COURSE AND DISTANCE          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       | ALTITUDE |                | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW31<br><br>CLIMB TO 4100 DIRECT DAFHY AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD NW, RT, 128.90 INBOUND.<br>CHART FAS OBST: 2160 TWR 432222N/0994944W<br>DISTANCE TO THLD FROM 250 HAT: 0.69 NM.<br>CHART VDP AT 1.14 MILES TO RW31*<br>*LNAV ONLY.<br>WAAS CHANNEL # 97612<br>REFERENCE PATH ID: W31A<br>CHART CIRCLING ICON.<br>LTP HAE: 591.7 M |                                          |        |     |         |  |                                        |  |                  |  |
| AGUFY (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | NOCHE (FB)                                                     |         |        | 309.16 / 5.85                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       | 3900     |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| NOCHE (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | ZELIK/3.00 NM TO RW31 (FB)                                     |         |        | 309.11 / 2.79                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| ZELIK/3.00 NM TO RW31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | RW31 (MAP) (FO)                                                |         |        | 309.11 / 3.00                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| RW31 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 2275 MSL                                                       |         |        | 309.11                       |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       | 4100     |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| 2275 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | DAFHY (FO)                                                     |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD SE AGUFY, RT, 309.16 INBOUND, 4100 FT. IN LIEU OF PT (IAF)<br>3. FAC: 309.11 FAF: NOCHE DIST FAF TO MAP: 5.79 THLD: 5.79<br>4. MIN. ALT: AGUFY 4100, NOCHE 3900, ZELIK/3.00 NM TO RW31 3000*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 3900 GS ALT AT: NOCHE 3900 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 32.2 34:1 IS CLEAR<br>8. MSA FROM: _____ |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  | MAG VAR: 6E                            |  | EPOCH YEAR: 2010 |  |
| <b>MINIMUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          | ALTERNATE: N A |                                                                                                                                                                                                                                                                                                                                                                                             | STANDARD @                               |        |     |         |  |                                        |  |                  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | A                                                              |         |        | B                            |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     | C     |          |                | D                                                                                                                                                                                                                                                                                                                                                                                           |                                          |        | E   |         |  |                                        |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DH/MDA | VIS                                                            | HAT/HAA | DH/MDA | VIS                          | HAT/HAA                                                                                                                                                                                                                                                                                                                                                              | DH/MDA                                                                              | VIS   | HAT/HAA  | DH/MDA         | VIS                                                                                                                                                                                                                                                                                                                                                                                         | HAT/HAA                                  | DH/MDA | VIS | HAT/HAA |  |                                        |  |                  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2275   | 1                                                              | 250     | 2275   | 1                            | 250                                                                                                                                                                                                                                                                                                                                                                  | 2275                                                                                | 1     | 250      |                | NA                                                                                                                                                                                                                                                                                                                                                                                          |                                          |        |     |         |  |                                        |  |                  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2310   | 1                                                              | 285     | 2310   | 1                            | 285                                                                                                                                                                                                                                                                                                                                                                  | 2310                                                                                | 1     | 285      |                | NA                                                                                                                                                                                                                                                                                                                                                                                          |                                          |        |     |         |  |                                        |  |                  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2420   | 1                                                              | 395     | 2420   | 1                            | 395                                                                                                                                                                                                                                                                                                                                                                  | 2420                                                                                | 1 1/8 | 395      |                | NA                                                                                                                                                                                                                                                                                                                                                                                          |                                          |        |     |         |  |                                        |  |                  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2580   | 1                                                              | 548     | 2680   | 1                            | 648                                                                                                                                                                                                                                                                                                                                                                  | 2680                                                                                | 1 3/4 | 648      |                | NA                                                                                                                                                                                                                                                                                                                                                                                          |                                          |        |     |         |  |                                        |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  |                                        |  |                  |  |
| NOTES:<br>CHART NOTE: CIRCLING NA TO RWYS 3 AND 21.<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-11F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                                                                                                                                                        |        |                                                                |         |        |                              |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             |                                          |        |     |         |  | @ NA WHEN LOCAL WEATHER NOT AVAILABLE. |  |                  |  |
| CITY AND STATE<br><br>WINNER, SD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | ELEVATION: 2032 TDZE: 2025<br>AIRPORT NAME:<br><br>WINNER RGNL |         |        | FACILITY IDENTIFIER:<br>RNAV |                                                                                                                                                                                                                                                                                                                                                                      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 31, AMDT 1<br>21 JULY 2016 |       |          |                |                                                                                                                                                                                                                                                                                                                                                                                             | SUP:<br>AMDT: ORIG-A<br>DATED 04/04/2013 |        |     |         |  |                                        |  |                  |  |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING VALENTINE ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE VALENTINE, NE ALTIMETER SETTING AND INCREASE LPV DA TO 2514, LNAV/VNAV DA TO 2549 AND ALL VISIBILITIES 7/8 MILE. INCREASE ALL MDA 240 FEET; INCREASE CAT B VISIBILITY 1/4 MILE AND CAT C 1 MILE.

TAA

|    | FROM                    | TO                  | ALT  |
|----|-------------------------|---------------------|------|
| 1. | 219/30 CW 039/30 (NOPT) | AGUFY (IF/IAF) (FB) | 4100 |
| 2. | 039/30 CW 219/30        | AGUFY (IF/IAF) (FO) | 4200 |

CITY AND STATE

WINNER, SD

ELEVATION: 2032

TDZE: 2025

AIRPORT NAME:

WINNER RGNL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, AMDT 1

21 JULY 2016

SUP:

AMDT: ORIG-A

DATED: 04/04/2013

QUALITY  
18  
CHECKED



RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KICR          |
| RUNWAY                                   | RW31          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W31A          |
| LTP/FTP LATITUDE                         | 432300.3000N  |
| LTP/FTP LONGITUDE                        | 0994957.5570W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +05917        |
| FPAP LATITUDE                            | 432403.3605N  |
| FPAP LONGITUDE                           | 0995123.9030W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00032.2       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1072          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <u>CRC REMAINDER</u>                     | 0F9B00AA      |

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +06171 |
| FPAP ORTHOMETRIC HEIGHT | +06171 |

CITY AND STATE

WINNER, SD

ELEVATION: 2032

TDZE: 2025

AIRPORT NAME:

WINNER RGNL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, AMDT 1  
21 JULY 2016

SUP:

AMDT: ORIG-A

DATED: 04/04/2013

QUALITY  
18  
CHECKED

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - KICR

ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| AGUFY      | 010        | AGUFY       | HF          | FO    |     | 309.2      |            |       | R           |               |                | AA 04100                           |                                       | EE A                       |
|            | 010        | AGUFY       | IF          | FB    |     |            |            |       |             |               |                | AA 04100                           |                                       | E I                        |
|            | 020        | NOCHE       | TF          | FB    | 1.0 | 309.2      |            |       |             |               |                | AA 03900                           |                                       | E F                        |
|            | 021        | ZELIK       | TF          | FB    | 0.3 | 309.1      |            | 3.00  |             |               |                | AA 03000 GS 03011                  |                                       | E S                        |
|            | 030        | RW31        | TF          | FO    | 0.3 | 309.1      |            | 3.00  |             |               |                | AT 02057                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 309.1      |            |       |             |               |                | AA 02225                           |                                       | M                          |
|            | 050        | DAFHY       | DF          | FO    |     |            |            |       |             |               |                | AA 04100                           |                                       | EY                         |
|            | 060        | DAFHY       | HM          | FO    |     | 128.9      |            |       | R           |               |                | AA 04100                           |                                       | EE                         |

POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| AGUFY      | N431445.65 | W0993842.63 |
| DAFHY      | N433146.43 | W1000200.52 |
| NOCHE      | N431854.36 | W0994421.52 |
| ZELIK      | N432052.85 | W0994703.27 |

RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW31   | N432300.30            | W0994957.56            | 02025                  | 32.2             |

QUALITY  
18  
CHECKED

|                                     |                                          |                      |                                                  |                          |
|-------------------------------------|------------------------------------------|----------------------|--------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>WINNER, SD</b> | ELEVATION: <b>2032</b> <b>TDZE: 2025</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:       | SUP:                     |
|                                     | AIRPORT NAME:<br><b>WINNER RGNL</b>      | <b>RNAV</b>          | <b>RNAV (GPS) RWY 31, AMDT 1</b><br>21 JULY 2016 | AMDT: <b>ORIG-A</b>      |
|                                     |                                          |                      |                                                  | DATED: <b>04/04/2013</b> |

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport     | Effective Date | Amdt. No. |
|-------------|-------------|----------------|-----------|
| WINNER, SD  | WINNER RGNL | 21 JULY 2016   | 4         |

**TAKEOFF MINIMUMS:**

RWY 13, 31 STANDARD.  
RWY 3, 21: NA - ENVIRONMENTAL.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**CONTROLLING OBSTACLES:**



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport     | Effective Date | Amdt. No. |
|-------------|-------------|----------------|-----------|
| WINNER, SD  | WINNER RGNL | 21 JULY 2016   | 4         |

**REMARKS:**

**FLIGHT INSPECTED BY:**

ALEX KRAUSE *Digitally signed by*  
*THOMAS L KIRKPATRICK* FICO  
Jun 13, 2016

04/12/2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

PABLO ORTIZ *Digitally signed by*  
*THOMAS L KIRKPATRICK* AJV-5423  
Jun 13, 2016

02/10/2016

**APPROVED BY:**

TONY LAWSON *Digitally signed by*  
*THOMAS L KIRKPATRICK* AJV-5420  
Jun 13, 2016

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZMP, AMGR

**CHANGES:**

1. UPDATED 8260-15A FORM.

**REASONS:**

1. COMPLY WITH CURRENT CRITERIA.



|                                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------|--------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------|-------------------------|-----|---------|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                              |        | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         | MISSED APPROACH                                                                                                                                                 |       |                                      |                         |     |         |
| FROM                                                                                                                                                                                                                                                                                                                                            |        | TO                                                                         |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                    |        | ALTITUDE |         | ILS: DA<br>LOC: 4.41 MILES AFTER OBION LOM                                                                                                                      |       |                                      |                         |     |         |
|                                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         | CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 2500 DIRECT OBION LOM AND HOLD.                                                                                       |       |                                      |                         |     |         |
|                                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         | ADDITIONAL FLIGHT DATA:<br>HOLD S, LT, 006.37 INBOUND.<br>FAS OBST: 569 AAO 361857N/0885905W<br>CHART (CFGBF) AT 361133.31N/0890041.30W<br>CHART CIRCLING ICON. |       |                                      |                         |     |         |
| 1. PT <u>R</u> SIDE OF COURSE <u>186.37</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>OBION LOM</u> (IAF)                                                                                                                                                                                                                            |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 2.                                                                                                                                                                                                                                                                                                                                              |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 3. FAC: <u>006.37</u> FAF: <u>OBION LOM</u> DIST FAF TO MAP: <u>4.41</u> THLD: <u>4.41</u>                                                                                                                                                                                                                                                      |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 4. MIN. ALT: <u>OBION LOM 1900</u>                                                                                                                                                                                                                                                                                                              |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 5. DIST TO THLD FROM OM: <u>-</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>920</u>                                                                                                                                                                                                                              |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 6. MIN GS INCPT: <u>1900</u> GS ALT AT: <u>-</u> OM: <u>1807</u> MM: <u>-</u> IM: <u>-</u>                                                                                                                                                                                                                                                      |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 7. GS ANGLE: <u>3.00</u> TCH: <u>42.3</u>                                                                                                                                                                                                                                                                                                       |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| 8. MSA FROM: <u>UC LOM 2500</u>                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         | MAG VAR: <u>0E</u>                                                                                                                                              |       |                                      | EPOCH YEAR: <u>2000</u> |     |         |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                        |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         | ALTERNATE: N A                                                                                                                                                  |       | X                                    |                         |     |         |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                 |        | A                                                                          |         | B                                                                                                                                                                                                                                                                                                                                                                    |     | C                                                                                  |        | D        |         | E                                                                                                                                                               |       |                                      |                         |     |         |
|                                                                                                                                                                                                                                                                                                                                                 | DH/MDA | VIS                                                                        | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                                                                            | DH/MDA | VIS      | HAT/HAA | DH/MDA                                                                                                                                                          | VIS   | HAT/HAA                              | DH/MDA                  | VIS | HAT/HAA |
| S-ILS 1                                                                                                                                                                                                                                                                                                                                         | 546    | 3/4                                                                        | 200     | 546                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 200                                                                                | 546    | 3/4      | 200     | 546                                                                                                                                                             | 3/4   | 200                                  |                         |     |         |
| S-LOC 1                                                                                                                                                                                                                                                                                                                                         | 820    | 3/4                                                                        | 474     | 820                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 474                                                                                | 820    | 1 1/4    | 474     | 820                                                                                                                                                             | 1 1/4 | 474                                  |                         |     |         |
| CIRCLING                                                                                                                                                                                                                                                                                                                                        | 820    | 1                                                                          | 474     | 820                                                                                                                                                                                                                                                                                                                                                                  | 1   | 474                                                                                | 820    | 1 1/2    | 474     | 1020                                                                                                                                                            | 2 1/4 | 674                                  |                         |     |         |
|                                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
|                                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
|                                                                                                                                                                                                                                                                                                                                                 |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| NOTES:<br>CHART NOTE: ADF REQUIRED.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DYERSBURG ALTIMETER SETTING AND INCREASE ALL DA 72 FEET AND ALL MDA 80 FEET, INCREASE S-LOC 1 CAT C/D VISIBILITY TO 1 3/8 MILE, CIRCLING CAT C VISIBILITY TO 1 5/8 MILE AND CIRCLING CAT D VISIBILITY TO 2 1/2 MILE.<br>(CONTINUED ON PAGE 2) |        |                                                                            |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                    |        |          |         |                                                                                                                                                                 |       |                                      |                         |     |         |
| CITY AND STATE<br>UNION CITY, TN                                                                                                                                                                                                                                                                                                                |        | ELEVATION: 346 TDZE: 346<br>AIRPORT NAME:<br>EVERETT-STEWART RGNL          |         | FACILITY IDENTIFIER:<br>I-UCY                                                                                                                                                                                                                                                                                                                                        |     | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 1, AMDT 3<br>21 JULY 2016 |        |          |         |                                                                                                                                                                 |       | SUP:<br>AMDT: 2A<br>DATED 06/25/2015 |                         |     |         |



**ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):****CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 1.****CHART NOTE: FOR INOPERATIVE ODALS, INCREASE S-LOC 1 CAT C/D VISIBILITY TO 1 3/8 MILE.****CHART NOTE: FOR INOPERATIVE ODALS WHEN USING DYERSBURG ALTIMETER SETTING, INCREASE S-ILS 1 ALL****CATS VISIBILITY TO 7/8 MILE AND S-LOC 1 CAT D VISIBILITY TO 1 5/8 MILE.****CHART PLANVIEW NOTE: ADF AND RADAR REQUIRED.**

CITY AND STATE

UNION CITY, TN

**ELEVATION: 346****TDZE: 346**

AIRPORT NAME:

EVERETT-STEWART RGNL

FACILITY  
IDENTIFIER:  
**I-UCY**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**ILS OR LOC RWY 1, AMDT 3**

21 JULY 2016

SUP:

AMDT: **2A**DATED: **06/25/2015**QUALITY  
10  
CHECKED

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KUCY

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| OBION      | 010        | OBION       | PI          | FB    |     | 231.4      | IUCY       |       | L           |               |                | AA 02000                           |                                       | EE A                       |
|            | 010        | CFGBF       | IF          | FB    |     |            | IUCY       |       |             |               |                | AA 02000 GI 01900                  |                                       | E I                        |
|            | 020        | OBION       | CF          | FB    |     | 006.0      | IUCY       | 3.00  |             | UC            |                | GI 01900 GS 01807                  |                                       | E F                        |
|            | 030        | RW01        | CF          | FO    |     | 006.0      | IUCY       | 3.00  |             |               |                | AT 00388                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 006.4      |            |       |             |               |                | AA 01300                           |                                       | M                          |
|            | 050        | OBION       | DF          | FO    |     |            |            |       | R           |               |                | AA 02500                           |                                       | EY                         |
|            | 060        | OBION       | HM          | FO    |     | 006.4      |            |       | L           |               |                | AA 02500                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CFGBF      | N361133.31 | W0890041.30 |
| OBION      | N361752.07 | W0885949.23 |
| IUCY (LOC) | N362328.92 | W0885902.74 |
| UC         | N361751.37 | W0885941.53 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW01   | N362215.11            | W0885912.95            | 00346                  | 42.3             |

QUALITY  
15  
CHECKED

|                                         |                                              |                         |                                                                               |                          |
|-----------------------------------------|----------------------------------------------|-------------------------|-------------------------------------------------------------------------------|--------------------------|
| CITY AND STATE<br><b>UNION CITY, TN</b> | ELEVATION: <b>346</b> <b>TDZE: 346</b>       | FACILITY<br>IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>ILS OR LOC RWY 1, AMDT 3</b> | SUP:                     |
|                                         | AIRPORT NAME:<br><b>EVERETT-STEWART RGNL</b> | <b>I-UCY</b>            | <b>21 JULY 2016</b>                                                           | AMDT: <b>2A</b>          |
|                                         |                                              |                         |                                                                               | DATED: <b>06/25/2015</b> |

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## ARINC SUMMARY - KUCY

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| OBION      | 010        | OBION       | PI          | FB    |     | 231.4      | IUCY       |       | L           |               |                | AA 02000                           |                                       | EE A                       |
|            | 010        | CFGBF       | IF          | FB    |     |            | IUCY       |       |             |               |                | AA 02000                           |                                       | E I                        |
|            | 020        | OBION       | CF          | FB    |     | 006.0      | IUCY       |       |             | UC            |                | AA 01900                           |                                       | E F                        |
|            | 030        | RW01        | CF          | FO    |     | 006.0      | IUCY       | 3.24  |             |               |                | AT 00388                           |                                       | GY M                       |
|            | 040        |             | CA          | FB    |     | 006.4      |            |       |             |               |                | AA 01300                           |                                       | M                          |
|            | 050        | OBION       | DF          | FO    |     |            |            |       | R           |               |                | AA 02500                           |                                       | EY                         |
|            | 060        | OBION       | HM          | FO    |     | 006.4      |            |       | L           |               |                | AA 02500                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| CFGBF      | N361133.31 | W0890041.30 |
| OBION      | N361752.07 | W0885949.23 |
| IUCY (LOC) | N362328.92 | W0885902.74 |
| UC         | N361751.37 | W0885941.53 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW01   | N362215.11            | W0885912.95            | 00346                  | 42.3             |

QUALITY  
15  
CHECKED

CITY AND STATE  
UNION CITY, TN

ELEVATION: 346 TDZE: 346  
AIRPORT NAME:  
EVERETT-STEWART RGNL

FACILITY  
IDENTIFIER:  
I-UCY

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
ILS OR LOC RWY 1, AMDT 3  
21 JULY 2016

SUP:  
AMDT: 2A  
DATED: 06/25/2015



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------|--------|----------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|--------|-----|---------|--|
| <b>RNAV - STANDARD<br/>INSTRUMENT APPROACH PROCEDURE<br/>TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                    |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | TO                                 |         | COURSE AND DISTANCE                                                                                                                                                                                                                                                                                                                                                  |     |                           |        | ALTITUDE                               |         | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW01<br><br>CLIMB TO 2900 DIRECT LOYIG AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD N, RT, 186.39 INBOUND.<br>CHART FAS OBST: 459 TREE 362201N/0885926W<br>DISTANCE TO THLD FROM 200 HAT: 0.50 NM.<br>CHART VDP AT 1.04 MILES TO RW01*<br>*LNAV ONLY.<br>WAAS CHANNEL # 53328<br>REFERENCE PATH ID: W01A<br>CHART CIRCLING ICON.<br>LTP HAE: 77.2 M |       |                  |        |     |         |  |
| CNG VORTAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | GIY EY (FO)                        |         | 189.84 / 49.62                                                                                                                                                                                                                                                                                                                                                       |     |                           |        | 2000                                   |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| GIY EY (IF/IAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | OLELE (FB)                         |         | 006.35 / 6.00                                                                                                                                                                                                                                                                                                                                                        |     |                           |        | 1900                                   |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| OLELE (FAF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | YOGOV/1.70 NM TO RW01 (FB)         |         | 006.37 / 3.05                                                                                                                                                                                                                                                                                                                                                        |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| YOGOV/1.70 NM TO RW01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | RW01 (MAP) (FO)                    |         | 006.37 / 1.70                                                                                                                                                                                                                                                                                                                                                        |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| RW01 (MAP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | 546 MSL                            |         | 006.37                                                                                                                                                                                                                                                                                                                                                               |     |                           |        | 2900                                   |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| 546 MSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | LOYIG (FO)                         |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)<br>2. HOLD S GIY EY, RT, 006.35 INBOUND, 2000 FT. IN LIEU OF PT (IAF)<br>3. FAC: 006.37 FAF: OLELE DIST FAF TO MAP: 4.75 THLD: 4.75<br>4. MIN. ALT: GIY EY 2000, OLELE 1900, YOGOV/1.70 NM TO RW01 920*<br>5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____<br>6. MIN GS INCPT: 1900 GS ALT AT: OLELE 1900 OM: _____ MM: _____ IM: _____<br>7. GS ANGLE: 3.00 TCH: 42.3 34:1 IS CLEAR<br>8. MSA FROM: RW01 2200 |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         | MAG VAR: 0E                                                                                                                                                                                                                                                                                                                                                                               |       | EPOCH YEAR: 2000 |        |     |         |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        | ALTERNATE: N A                         |         | X                                                                                                                                                                                                                                                                                                                                                                                         |       |                  |        |     |         |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | A                                  |         |                                                                                                                                                                                                                                                                                                                                                                      | B   |                           |        | C                                      |         |                                                                                                                                                                                                                                                                                                                                                                                           | D     |                  |        | E   |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DH/MDA | VIS                                | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                               | VIS | HAT/HAA                   | DH/MDA | VIS                                    | HAT/HAA | DH/MDA                                                                                                                                                                                                                                                                                                                                                                                    | VIS   | HAT/HAA          | DH/MDA | VIS | HAT/HAA |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 546    | 3/4                                | 200     | 546                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 200                       | 546    | 3/4                                    | 200     | 546                                                                                                                                                                                                                                                                                                                                                                                       | 3/4   | 200              |        |     |         |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 640    | 7/8                                | 294     | 640                                                                                                                                                                                                                                                                                                                                                                  | 7/8 | 294                       | 640    | 7/8                                    | 294     | 640                                                                                                                                                                                                                                                                                                                                                                                       | 7/8   | 294              |        |     |         |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 720    | 3/4                                | 374     | 720                                                                                                                                                                                                                                                                                                                                                                  | 3/4 | 374                       | 720    | 1                                      | 374     | 720                                                                                                                                                                                                                                                                                                                                                                                       | 1     | 374              |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 760    | 1                                  | 414     | 800                                                                                                                                                                                                                                                                                                                                                                  | 1   | 454                       | 820    | 1 1/2                                  | 474     | 1020                                                                                                                                                                                                                                                                                                                                                                                      | 2 1/4 | 674              |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CNG VORTAC AIRWAY RADIALS 133 CW 240.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2)                                                                                                                                                                                 |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        |                                        |         |                                                                                                                                                                                                                                                                                                                                                                                           |       |                  |        |     |         |  |
| CITY AND STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | ELEVATION: 346 TDZE: 346           |         |                                                                                                                                                                                                                                                                                                                                                                      |     | FACILITY IDENTIFIER: RNAV |        | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                                                           |       | SUP: 4           |        |     |         |  |
| UNION CITY, TN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | AIRPORT NAME: EVERETT-STEWART RGNL |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        | RNAV (GPS) RWY 1, AMDT 4               |         |                                                                                                                                                                                                                                                                                                                                                                                           |       | AMDT: 3A         |        |     |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                    |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                           |        | 21 JULY 2016                           |         |                                                                                                                                                                                                                                                                                                                                                                                           |       | DATED 06/25/2015 |        |     |         |  |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING DYERSBURG ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DYERSBURG ALTIMETER SETTING AND INCREASE ALL DA 72 FEET AND ALL MDA 80 FEET, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 MILE, LNAV CAT C/D VISIBILITY TO 1 1/8 MILE, AND CIRCLING CAT D VISIBILITY TO 2 1/2 MILE.

CHART NOTE: FOR INOPERATIVE ODALS INCREASE LNAV/VNAV AND LNAV ALL CATS VISIBILITY TO 1 MILE.

CHART NOTE: FOR INOPERATIVE ODALS WHEN USING DYERSBURG ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 MILE, LNAV/VNAV ALL CATS VISIBILITY TO 1 1/4 MILE, AND LNAV CAT D VISIBILITY TO 1 3/8 MILE.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS AND LNAV CATS C/D.

CITY AND STATE  
UNION CITY, TN

ELEVATION: 346 TDZE: 346  
AIRPORT NAME:  
EVERETT-STEWART RGNL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 1, AMDT 4  
21 JULY 2016

SUP: 4  
AMDT: 34  
DATED: 06/25/2015

QUALITY  
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KUCY          |
| RUNWAY                                   | RW01          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W01A          |
| LTP/FTP LATITUDE                         | 362215.1105N  |
| LTP/FTP LONGITUDE                        | 0885912.9455W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00772        |
| FPAP LATITUDE                            | 362343.7815N  |
| FPAP LONGITUDE                           | 0885900.6820W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00042.3       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0768          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |
| <br><u>CRC REMAINDER</u>                 | <br>65C44E3F  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +01054 |
| FPAP ORTHOMETRIC HEIGHT | +01054 |

CITY AND STATE  
UNION CITY, TN

ELEVATION: 346 TDZE: 346  
AIRPORT NAME:  
EVERETT-STEWART RGNL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 1, AMDT 4  
21 JULY 2016

SUP: **QUALITY**  
4  
AMDT: **CHECKED**  
34  
DATED: 06/25/2015

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                                        |                        |                                         |     |                                                                                                   |            |       |                                                                                                                                                                 |               |                | Bearings, headings, courses, and radials are magnetic. 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----------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|-----|-----|-----|----|----|--|--|--|--|--|--|--|--|--|---|-----|-----|--------|----|----|-----|-------|--|--|--|--|--|----------|--|----|-----|-----|--------|----|----|--|-------|--|--|---|--|--|----------|--|------|--|-----|--------|----|----|--|--|--|--|--|--|--|----------|--|-----|--|-----|-------|----|----|-----|-------|--|--|--|------|--|----------|--|-----|--|-----|-------|----|----|-----|-------|--|------|--|--|--|-------------------|--|-----|--|-----|------|----|----|-----|-------|--|------|--|--|--|----------|--|------|--|-----|--|----|----|--|-------|--|--|--|--|--|----------|--|---|--|-----|-------|----|----|--|--|--|--|--|--|--|----------|--|----|--|-----|-------|----|----|--|-------|--|--|---|--|--|----------|--|----|------------|----------|-----------|-----|------------|-------------|--------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|--------|-----------------------|------------------------|------------------------|------------------|------|------------|-------------|-------|------|
| <div style="margin-bottom: 10px;">ARINC SUMMARY - KUCY</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>CNG</td><td>010</td><td>CNG</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>V</td></tr> <tr><td>CNG</td><td>020</td><td>GIY EY</td><td>TF</td><td>FO</td><td>1.0</td><td>189.8</td><td></td><td></td><td></td><td></td><td></td><td>AA 02000</td><td></td><td>EY</td></tr> <tr><td>CNG</td><td>030</td><td>GIY EY</td><td>HF</td><td>FO</td><td></td><td>006.4</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 02000</td><td></td><td>EE A</td></tr> <tr><td></td><td>010</td><td>GIY EY</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 02000</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>OLELE</td><td>TF</td><td>FB</td><td>1.0</td><td>006.4</td><td></td><td></td><td></td><td>RW01</td><td></td><td>AA 01900</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>YOGOV</td><td>TF</td><td>FB</td><td>0.3</td><td>006.4</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 00920 GS 00930</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW01</td><td>TF</td><td>FO</td><td>0.3</td><td>006.4</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00388</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>006.4</td><td></td><td></td><td></td><td></td><td></td><td>AA 00546</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>LOYIG</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 02900</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>LOYIG</td><td>HM</td><td>FO</td><td></td><td>186.4</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 02900</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| GIY EY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| LOYIG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| OLELE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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      | W0885952.10                                                                            |                        |                                         |     |                                                                                                   |            |       |                                                                                                                                                                 |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |       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| YOGOV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                                 | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                        |     |                                                                                                   |            |       |                                                                                                                                                                 |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |    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| RW01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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      | W0885912.95                                                                            | 00346                  | 42.3                                    |     |                                                                                                   |            |       |                                                                                                                                                                 |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |       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| CITY AND STATE<br><b>UNION CITY, TN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | ELEVATION: <b>346</b> <b>TDZE: 346</b><br>AIRPORT NAME:<br><b>EVERETT-STEWART RGNL</b> |                        | FACILITY IDENTIFIER:<br><br><b>RNAV</b> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 1, AMDT 4</b><br><br>21 JULY 2016 |            |       | SUP: <span style="color: green; font-weight: bold;">4</span><br>AMDT: <span style="color: green; font-weight: bold;">CHECKED</span><br>DATED: <b>06/25/2015</b> |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |   |     |     |        |    |    |     |       |  |  |  |  |  |          |  |    |     |     |        |    |    |  |       |  |  |   |  |  |          |  |      |  |     |        |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |        |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |      |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|-------------------------------------------------------------------|-------|---------|-----------------------------------------------------------------------------|---------------------------------|---------|-------------------------------------------------------------------------------------|-------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                                                                                                                                 |        |       |         |                                                                   |       |         | RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.33 |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                                                                                                                                    |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                                                                                                                               |        |       |         | TO                                                                |       |         |                                                                             | COURSE AND DISTANCE             |         |                                                                                     |       | ALTITUDE |        | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW19<br><br>CLIMB TO 2300 DIRECT GIYEV AND HOLD.<br><br>ADDITIONAL FLIGHT DATA:<br>HOLD S, RT, 006.35 INBOUND.<br>CHART FAS OBST: 439 TREE 362447N/0885828W<br>619 AAO 362755N/0885922W.<br>519 TREE 362559N/0885923W.<br>DISTANCE TO THLD FROM 250 HAT: 0.69 NM.<br>CHART VDP AT 1.13 MILES TO RW19*<br>*LNAV ONLY.<br>WAAS CHANNEL # 48922<br>REFERENCE PATH ID: W19A<br>CHART CIRCLING ICON.<br>LTP HAE: 66.1 M |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CNG VORTAC (IAF)                                                                                                                                                                                                                                                                                                                                                   |        |       |         | LOYIG (NOPT) (FB)                                                 |       |         |                                                                             | 192.74 / 26.72                  |         |                                                                                     |       | 2900     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LOYIG (IF/IAF)                                                                                                                                                                                                                                                                                                                                                     |        |       |         | UKIKE (FB)                                                        |       |         |                                                                             | 186.39 / 5.97                   |         |                                                                                     |       | 2000     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| UKIKE (FAF)                                                                                                                                                                                                                                                                                                                                                        |        |       |         | POTYI/2.60 NM TO RW19 (FB)                                        |       |         |                                                                             | 186.39 / 2.58                   |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| POTYI/2.60 NM TO RW19                                                                                                                                                                                                                                                                                                                                              |        |       |         | RW19 (MAP) (FO)                                                   |       |         |                                                                             | 186.39 / 2.60                   |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| RW19 (MAP)                                                                                                                                                                                                                                                                                                                                                         |        |       |         | 570 MSL                                                           |       |         |                                                                             | 186.39                          |         |                                                                                     |       | 2300     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 570 MSL                                                                                                                                                                                                                                                                                                                                                            |        |       |         | GIYEV (FO)                                                        |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                                                                                                                               |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        | MAG VAR: 0E EPOCH YEAR: 2000                                                                                                                                                                                                                                                                                                                                                                                                                         |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 2. HOLD N LOYIG, RT, 186.39 INBOUND, 2900 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                                                                                                                                  |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 3. FAC: 186.39 FAF: UKIKE DIST FAF TO MAP: 5.18 THLD: 5.18                                                                                                                                                                                                                                                                                                         |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 4. MIN. ALT: LOYIG 2900, UKIKE 2000, POTYI/2.60 NM TO RW19 1160*                                                                                                                                                                                                                                                                                                   |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____                                                                                                                                                                                                                                                                     |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 6. MIN GS INCPT: 2000 GS ALT AT: UKIKE 2000 OM: _____ MM: _____ IM: _____                                                                                                                                                                                                                                                                                          |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR                                                                                                                                                                                                                                                                                                                          |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| 8. MSA FROM: RW19 2200                                                                                                                                                                                                                                                                                                                                             |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                                                                                                                           |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                                                                                                                                    |        |       |         |                                                                   |       |         |                                                                             |                                 |         | ALTERNATE: N A X                                                                    |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                                                                                                                                    |        | A     |         |                                                                   | B     |         |                                                                             | C                               |         |                                                                                     | D     |          |        | E                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                    | DH/MDA | VIS   | HAT/HAA | DH/MDA                                                            | VIS   | HAT/HAA | DH/MDA                                                                      | VIS                             | HAT/HAA | DH/MDA                                                                              | VIS   | HAT/HAA  | DH/MDA | VIS                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HAT/HAA |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LPV DA                                                                                                                                                                                                                                                                                                                                                             | 570    | 7/8   | 250     | 570                                                               | 7/8   | 250     | 570                                                                         | 7/8                             | 250     | 570                                                                                 | 7/8   | 250      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV/VNAV DA                                                                                                                                                                                                                                                                                                                                                       | 719    | 1 3/8 | 399     | 719                                                               | 1 3/8 | 399     | 719                                                                         | 1 3/8                           | 399     | 719                                                                                 | 1 3/8 | 399      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| LNAV MDA                                                                                                                                                                                                                                                                                                                                                           | 700    | 1     | 380     | 700                                                               | 1     | 380     | 700                                                                         | 1                               | 380     | 700                                                                                 | 1     | 380      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                    |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                                                                                                                           | 760    | 1     | 414     | 800                                                               | 1     | 454     | 820                                                                         | 1 1/2                           | 474     | 1020                                                                                | 2 1/4 | 674      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                    |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                    |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).<br>CHART NOTE: DME/DME RNP-0.3 NA.<br>CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CNG VORTAC AIRWAY RADIALS 133 CW 240.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>(CONTINUED ON PAGE 2) |        |       |         |                                                                   |       |         |                                                                             |                                 |         |                                                                                     |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                         |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |
| CITY AND STATE<br>UNION CITY, TN                                                                                                                                                                                                                                                                                                                                   |        |       |         | ELEVATION: 346 TDZE: 320<br>AIRPORT NAME:<br>EVERETT-STEWART RGNL |       |         |                                                                             | FACILITY<br>IDENTIFIER:<br>RNAV |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 19, AMDT 2<br>21 JULY 2016 |       |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | SUP: 4<br>AMDT: 01A<br>DATED 06/25/2015 |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |                                           |                                                                                                                                                                                                                                                                                                                                                                      |                                             |
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| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>RNAV - STANDARD<br>INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33                                                                                                                                                                                                                                                |                                                         |                                           | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                             |
| NOTES, (CONT.):<br>CHART NOTE: VDP AND BARO-VNAV NA WITH DYERSBURG ALTIMETER SETTING.<br>CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DYERSBURG ALTIMETER SETTING AND INCREASE ALL DA 72 FEET AND ALL MDA 80 FEET, INCREASE LPV ALL CATS VISIBILITY 1/4 MILE, LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE, LNAV CATS C/D VISIBILITY 3/8 MILE, AND CIRCLING CAT D VISIBILITY 1/4 MILE. |                                                         |                                           |                                                                                                                                                                                                                                                                                                                                                                      |                                             |
| CITY AND STATE<br>UNION CITY, TN                                                                                                                                                                                                                                                                                                                                                               | ELEVATION: 346<br>AIRPORT NAME:<br>EVERETT-STEWART RGNL | TDZE: 320<br>FACILITY IDENTIFIER:<br>RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 19, AMDT 2<br>21 JULY 2016                                                                                                                                                                                                                                                                                 | SUP:                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |                                           |                                                                                                                                                                                                                                                                                                                                                                      | AMDT:                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |                                           |                                                                                                                                                                                                                                                                                                                                                                      | DATED:                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |                                           |                                                                                                                                                                                                                                                                                                                                                                      | QUALITY<br>4<br>CHECKED<br>1A<br>06/25/2015 |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KUCY          |
| RUNWAY                                   | RW19          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W19A          |
| LTP/FTP LATITUDE                         | 362319.0175N  |
| LTP/FTP LONGITUDE                        | 0885904.1150W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +00661        |
| FPAP LATITUDE                            | 362150.3470N  |
| FPAP LONGITUDE                           | 0885916.3740W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00040.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0768          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br><u>CRC REMAINDER</u>                 | <br>E53A2A5C  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +00943 |
| FPAP ORTHOMETRIC HEIGHT | +00943 |

CITY AND STATE  
UNION CITY, TN

ELEVATION: 346 TDZE: 320  
AIRPORT NAME:  
EVERETT-STEWART RGNL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 19, AMDT 2  
21 JULY 2016

SUP: **QUALITY 4**  
AMDT: **1A CHECKED**  
DATED: 06/25/2015

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                                        |                        |                                         |     |                                                                                                    |            |       |                                                                                                                                                                                                                                                                    |               |                | Bearings, headings, courses, and radials are magnetic. 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Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |
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| <div style="margin-bottom: 10px;">ARINC SUMMARY - KUCY</div> <div style="margin-bottom: 10px;">ROUTES</div> <table style="width:100%; border-collapse: collapse; font-family: monospace; font-size: small;"> <thead> <tr> <th style="text-align: left;">TRANSITION</th> <th style="text-align: left;">WPT<br/>SEQ</th> <th style="text-align: left;">WPT<br/>NAME</th> <th style="text-align: left;">LEG<br/>TYPE</th> <th style="text-align: left;">FB/FO</th> <th style="text-align: left;">RNP</th> <th style="text-align: left;">MAG<br/>CRS</th> <th style="text-align: left;">REC<br/>NAV</th> <th style="text-align: left;">ANGLE</th> <th style="text-align: left;">TURN<br/>DIR</th> <th style="text-align: left;">CENTER<br/>FIX</th> <th style="text-align: left;">TURN<br/>RADIUS</th> <th style="text-align: left;">ALTITUDE<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">SPEED LIMIT<br/>DESCRIPTION<br/>&amp; VALUE</th> <th style="text-align: left;">WPT<br/>DESCRIPTION<br/>CODE</th> </tr> </thead> <tbody> <tr><td>CNG</td><td>010</td><td>CNG</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>V A</td></tr> <tr><td>CNG</td><td>020</td><td>LOYIG</td><td>TF</td><td>FB</td><td>1.0</td><td>192.7</td><td></td><td></td><td></td><td></td><td></td><td>AA 02900</td><td></td><td>EE B</td></tr> <tr><td>LOYIG</td><td>010</td><td>LOYIG</td><td>HF</td><td>FO</td><td></td><td>186.4</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 02900</td><td></td><td>EE A</td></tr> <tr><td></td><td>010</td><td>LOYIG</td><td>IF</td><td>FB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 02900</td><td></td><td>E I</td></tr> <tr><td></td><td>020</td><td>UKIKE</td><td>TF</td><td>FB</td><td>1.0</td><td>186.4</td><td></td><td></td><td></td><td>RW19</td><td></td><td>AA 02000</td><td></td><td>E F</td></tr> <tr><td></td><td>021</td><td>POTYI</td><td>TF</td><td>FB</td><td>0.3</td><td>186.4</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AA 01160 GS 01173</td><td></td><td>E S</td></tr> <tr><td></td><td>030</td><td>RW19</td><td>TF</td><td>FO</td><td>0.3</td><td>186.4</td><td></td><td>3.00</td><td></td><td></td><td></td><td>AT 00349</td><td></td><td>GY M</td></tr> <tr><td></td><td>040</td><td></td><td>CA</td><td>FB</td><td></td><td>186.4</td><td></td><td></td><td></td><td></td><td></td><td>AA 00570</td><td></td><td>M</td></tr> <tr><td></td><td>050</td><td>GIYEE</td><td>DF</td><td>FO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AA 02300</td><td></td><td>EY</td></tr> <tr><td></td><td>060</td><td>GIYEE</td><td>HM</td><td>FO</td><td></td><td>006.4</td><td></td><td></td><td>R</td><td></td><td></td><td>AA 02300</td><td></td><td>EE</td></tr> </tbody> </table> <div style="margin-bottom: 10px;">POINTS</div> <table style="width:100%; 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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   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| CNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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           |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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| CNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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      | LOYIG                                                                                  | TF                     | FB                                      | 1.0 | 192.7                                                                                              |            |       |                                                                                                                                                                                                                                                                    |               |                | AA 02900                                                                                                                                                                                                                                                                                                                                                             |                                       | EE B                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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| LOYIG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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      | LOYIG                                                                                  | HF                     | FO                                      |     | 186.4                                                                                              |            |       | R                                                                                                                                                                                                                                                                  |               |                | AA 02900                                                                                                                                                                                                                                                                                                                                                             |                                       | EE A                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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      | LOYIG                                                                                  | IF                     | FB                                      |     |                                                                                                    |            |       |                                                                                                                                                                                                                                                                    |               |                | AA 02900                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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           |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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      | POTYI                                                                                  | TF                     | FB                                      | 0.3 | 186.4                                                                                              |            | 3.00  |                                                                                                                                                                                                                                                                    |               |                | AA 01160 GS 01173                                                                                                                                                                                                                                                                                                                                                    |                                       | E S                        |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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      | RW19                                                                                   | TF                     | FO                                      | 0.3 | 186.4                                                                                              |            | 3.00  |                                                                                                                                                                                                                                                                    |               |                | AT 00349                                                                                                                                                                                                                                                                                                                                                             |                                       | GY M                       |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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           |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |         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| POINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| GIYEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| POTYI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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      | W0885842.67                                                                            |                        |                                         |     |                                                                                                    |            |       |                                                                                                                                                                                                                                                                    |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                 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| UKIKE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE                                                                 | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH                        |     |                                                                                                    |            |       |                                                                                                                                                                                                                                                                    |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | 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| RW19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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      | W0885904.12                                                                            | 00309                  | 40                                      |     |                                                                                                    |            |       |                                                                                                                                                                                                                                                                    |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |
| CITY AND STATE<br><b>UNION CITY, TN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | ELEVATION: <b>346</b> <b>TDZE: 320</b><br>AIRPORT NAME:<br><b>EVERETT-STEWART RGNL</b> |                        | FACILITY IDENTIFIER:<br><br><b>RNAV</b> |     | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><b>RNAV (GPS) RWY 19, AMDT 2</b><br><br>21 JULY 2016 |            |       | <div style="text-align: right; color: green; font-weight: bold; font-size: x-small;">QUALITY</div> SUP: <b>4</b><br><div style="text-align: right; color: green; font-weight: bold; font-size: x-small;">CHECKED</div> AMDT: <b>AA</b><br>DATED: <b>06/25/2015</b> |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |     |     |     |       |    |    |     |       |  |  |  |  |  |          |  |      |       |     |       |    |    |  |       |  |  |   |  |  |          |  |      |  |     |       |    |    |  |  |  |  |  |  |  |          |  |     |  |     |       |    |    |     |       |  |  |  |      |  |          |  |     |  |     |       |    |    |     |       |  |      |  |  |  |                   |  |     |  |     |      |    |    |     |       |  |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |       |    |    |  |  |  |  |  |  |  |          |  |    |  |     |       |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |       |            |             |       |            |             |       |            |             |       |            |             |        |                       |                        |                        |                  |      |            |             |       |    |



|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|-----|-------------------------------------------------------------------|--|---------------------|-----|-----------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------|--|-----|-----|----------------------|--|-----------------|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |  |     |     |                                                                   |  |                     |     |                             |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                                          |  |     |     |                      |  |                 |  |
| TERMINAL ROUTES                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| FROM                                                                                                                                                                        |  |     | TO  |                                                                   |  | COURSE AND DISTANCE |     |                             |  | ALTITUDE                                                                                                                                                                                                                                                                                                                                                              |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  | ADDITIONAL FLIGHT DATA:                                                                                                                                                                                                                                                                                                                                               |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| 1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| 2. _____                                                                                                                                                                    |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| 3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD ____                                                                                                                        |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| 4. MIN. ALT _____                                                                                                                                                           |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| 8. MSA FROM: _____                                                                                                                                                          |  |     |     |                                                                   |  |                     |     |                             |  | MAG VAR: _____ EPOCH YEAR: _____                                                                                                                                                                                                                                                                                                                                      |     |                                                                          |  |     |     |                      |  |                 |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                        |     |                                                                          |  |     |     |                      |  |                 |  |
| CATEGORY =====>                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  | MDA | VIS |                                                                   |  | MDA                 | VIS |                             |  | MDA                                                                                                                                                                                                                                                                                                                                                                   | VIS |                                                                          |  | MDA | VIS |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
|                                                                                                                                                                             |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| NOTES:                                                                                                                                                                      |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| PROCEDURE CANCELED EFFECTIVE 21 JULY 2016                                                                                                                                   |  |     |     |                                                                   |  |                     |     |                             |  |                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                          |  |     |     |                      |  |                 |  |
| CITY AND STATE<br>UNION CITY, TN                                                                                                                                            |  |     |     | ELEVATION: 336 TDZE:<br>AIRPORT NAME:<br><br>EVERETT-STEWART RGNL |  |                     |     | FACILITY IDENTIFIER:<br>DYR |  |                                                                                                                                                                                                                                                                                                                                                                       |     | PROCEDURE NO./AMD'T NO./EFFECTIVE DATE:<br>VOR/DME-A, AMDT 9, 05/31/2012 |  |     |     | SUP<br>AMD'T<br>DATE |  | 8<br>12/20/2007 |  |

|                                                                                                                                                                                                                                                          |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|------------------------------------------------------------|-------|---------|----------------------------------------------------------------------------|-------------------------------|---------|---------------------------------------------------------------------------------------|-----|----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION                                                                                                                                                                                       |        |       |         |                                                            |       |         | ILS - STANDARD<br>INSTRUMENT APPROACH PROCEDURE<br>TITLE 14 CFR PART 97.29 |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |  |  |  |  |  |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                                                                                                          |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| FROM                                                                                                                                                                                                                                                     |        |       |         | TO                                                         |       |         |                                                                            | COURSE AND DISTANCE           |         |                                                                                       |     | ALTITUDE |        | ILS: DA<br>LOC: IZELY/I-FLZ 0.70 DME                                                                                                                                                                                                                            |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| GEG VORTAC                                                                                                                                                                                                                                               |        |       |         | AZTEM INT/I-FLZ 15.58 DME                                  |       |         |                                                                            | 037.33 / 29.56                |         |                                                                                       |     | 7200     |        | CLIMB TO 3300 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 200 AND GEG VORTAC R-073 TO GEG VORTAC AND HOLD.                                                                                                                                                       |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| HILIE INT/COE 16.23 DME                                                                                                                                                                                                                                  |        |       |         | COE VOR/DME                                                |       |         |                                                                            | 321.86 / 16.23                |         |                                                                                       |     | 7900     |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| COE VOR/DME (IAF)                                                                                                                                                                                                                                        |        |       |         | AZTEM INT/I-FLZ 15.58 DME (NOPT)                           |       |         |                                                                            | 272.28 / 7.98                 |         |                                                                                       |     | 7100     |        | ADDITIONAL FLIGHT DATA:<br>HOLD SW, RT, 028.00 INBOUND.<br>CHART FAS OBST: 2536 POLE 474252N/1171532W<br>2992 AAO 474348N/1171057W.<br>CHART CIRCLING ICON.<br>FAC CROSSES RWY C/L EXTENDED 2056 FT FROM THLD.<br>CHART PLANVIEW NOTE: LOC OFFSET 2.98 DEGREES. |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| AZTEM INT/I-FLZ 15.58 DME (IF/IAF)                                                                                                                                                                                                                       |        |       |         | DIYSA/I-FLZ 11.04 DME                                      |       |         |                                                                            | 221.18 / 4.54 (I-FLZ)         |         |                                                                                       |     | 5700     |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| DIYSA/I-FLZ 11.04 DME                                                                                                                                                                                                                                    |        |       |         | HANSN/I-FLZ 6.58 DME                                       |       |         |                                                                            | 221.18 / 4.47 (I-FLZ)         |         |                                                                                       |     | 4300     |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)                                                                                                                                                                     |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  | MAG VAR: 16E EPOCH YEAR: 2010                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |
| 2. HOLD NE AZTEM, LT, 221.18 INBOUND, 7100 FT. IN LIEU OF PT (IAF)                                                                                                                                                                                       |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 3. FAC: 221.18 FAF: HANSN/I-FLZ 6.58 DME DIST FAF TO MAP: _____ THLD: 6.02                                                                                                                                                                               |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 4. MIN. ALT: AZTEM 7100, DIYSA 5700, HANSN 4300, LOLCI/I-FLZ 3.18 DME 3000*                                                                                                                                                                              |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - 100 HAT: _____ - GS ANT: 736                                                                                                                                         |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 6. MIN GS INCPT: 4300 GS ALT AT: HANSN 4300 OM: _____ - _____ MM: _____ - _____ IM: _____                                                                                                                                                                |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 7. GS ANGLE: 3.60 TCH: 42.6                                                                                                                                                                                                                              |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| 8. MSA FROM: GEG VORTAC 360-180 6500, 180-360 5300                                                                                                                                                                                                       |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| MINIMUMS                                                                                                                                                                                                                                                 |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                                                                                                          |        |       |         |                                                            |       |         | ALTERNATE: N A                                                             |                               |         | ILS: #                                                                                |     |          | LOC: @ |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CATEGORY =====>                                                                                                                                                                                                                                          |        | A     |         |                                                            | B     |         |                                                                            | C                             |         |                                                                                       | D   |          |        | E                                                                                                                                                                                                                                                               |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          | DH/MDA | VIS   | HAT/HAA | DH/MDA                                                     | VIS   | HAT/HAA | DH/MDA                                                                     | VIS                           | HAT/HAA | DH/MDA                                                                                | VIS | HAT/HAA  | DH/MDA | VIS                                                                                                                                                                                                                                                             | HAT/HAA |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| S-ILS 22R                                                                                                                                                                                                                                                | 2227   | 3/4   | 270     | 2227                                                       | 3/4   | 270     | 2227                                                                       | 1 7/8                         | 270     |                                                                                       | NA  |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| S-LOC 22R                                                                                                                                                                                                                                                | 2800   | 3/4   | 843     | 2800                                                       | 3/4   | 843     | 2800                                                                       | 1 7/8                         | 843     |                                                                                       | NA  |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CIRCLING                                                                                                                                                                                                                                                 | 2800   | 1 1/4 | 843     | 2800                                                       | 1 1/2 | 843     | 3020                                                                       | 3                             | 1063    |                                                                                       | NA  |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                          |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS ALL CATS.<br>CHART NOTE: CIRCLING NA NW OF RWY 4L-22R.<br>CHART NOTE: DME REQUIRED.<br>CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.<br>(CONTINUED ON PAGE 2) |        |       |         |                                                            |       |         |                                                                            |                               |         |                                                                                       |     |          |        |                                                                                                                                                                                                                                                                 |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |
| CITY AND STATE<br>SPOKANE, WA                                                                                                                                                                                                                            |        |       |         | ELEVATION: 1957 TDZE: 1957<br>AIRPORT NAME:<br>FELTS FIELD |       |         |                                                                            | FACILITY IDENTIFIER:<br>I-FLZ |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>ILS OR LOC RWY 22R, AMDT 1D<br>21 JULY 2016 |     |          |        | SUP: ILS OR LOC/DME<br>RWY 22R<br>AMDT: 1C<br>DATED 02/04/2016                                                                                                                                                                                                  |         |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |



**ILS - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):****\*LOC ONLY**

**CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SPOKANE INTERNATIONAL ALTIMETER SETTING AND INCREASE ALL DA 82 FEET AND ALL MDA 100 FEET; AND INCREASE S-LOC CAT C VISIBILITY 1/8 AND CIRCLING CAT C VISIBILITY 1/4.**

**CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC CAT A VISIBILITY TO 1 AND CAT C VISIBILITY TO 2 1/2.**

QUALITY  
5  
CHECKED

CITY AND STATE

SPOKANE, WA

**ELEVATION: 1957****TDZE: 1957**

AIRPORT NAME:

FELTS FIELD

FACILITY  
IDENTIFIER:

I-FLZ

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**ILS OR LOC RWY 22R, AMDT 1D**

21 JULY 2016

SUP: **ILS OR LOC/DME  
RWY 22R**AMDT: **1C**DATED: **02/04/2016**

| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>ILS STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                        |                        |                  |                                                                                                                                    |            |            |                                                                                         |             |                                                                                                                                                                                            |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                                                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |   |     |     |       |    |    |  |  |  |  |  |  |  |          |  |    |     |     |       |    |    |  |       |  |  |   |  |  |          |  |     |     |     |       |    |    |  |       |      |  |  |  |  |          |  |    |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |     |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |    |  |     |       |    |    |  |  |      |  |  |  |  |                   |  |     |  |     |       |    |    |  |       |      |      |  |     |  |                   |  |     |  |     |       |    |    |  |       |      |      |  |  |  |          |  |      |  |     |  |    |    |  |       |  |  |  |  |  |          |  |   |  |     |  |    |    |  |       |  |  |  |  |  |  |  |  |  |     |     |    |    |  |       |     |  |  |  |  |          |  |    |  |     |     |    |    |  |       |  |  |   |  |  |          |  |    |            |          |           |     |            |             |     |            |             |            |            |             |       |            |             |       |            |             |       |            |             |       |            |             |       |            |             |            |            |             |        |                       |                        |                        |                  |       |            |             |       |      |
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| TRANSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WPT<br>SEQ            | WPT<br>NAME            | LEG<br>TYPE            | FB/FO            | RNP                                                                                                                                | MAG<br>CRS | REC<br>NAV | ANGLE                                                                                   | TURN<br>DIR | CENTER<br>FIX                                                                                                                                                                              | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE                                                 | WPT<br>DESCRIPTION<br>CODE |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |   |     |     |       |    |    |  |  |  |  |  |  |  |          |  |    |     |     |       |    |    |  |       |  |  |   |  |  |          |  |     |     |     |       |    |    |  |       |      |  |  |  |  |          |  |    |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |     |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |    |  |     |       |    |    |  |  |      |  |  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                                                                                          | N474918.50            | W1170016.41            |                        |                  |                                                                                                                                    |            |            |                                                                                         |             |                                                                                                                                                                                            |                |                                                                                                                                                                                                                                                                                                                                                            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| DIYSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| HANSN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N474427.30            | W1171130.89            |                        |                  |                                                                                                                                    |            |            |                                                                                         |             |                                                                                                                                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |   |     |     |       |    |    |  |  |  |  |  |  |  |          |  |    |     |     |       |    |    |  |       |  |  |   |  |  |          |  |     |     |     |       |    |    |  |       |      |  |  |  |  |          |  |    |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |     |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |    |  |     |       |    |    |  |  |      |  |  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| IZELY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| IFLZ (LOC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| RUNWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |                                                                                                                                    |            |            |                                                                                         |             |                                                                                                                                                                                            |                |                                                                                                                                                                                                                                                                                                                                                            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| RW22R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N474111.10            | W1171859.67            | 01957                  | 42.6             |                                                                                                                                    |            |            |                                                                                         |             |                                                                                                                                                                                            |                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |   |     |     |       |    |    |  |  |  |  |  |  |  |          |  |    |     |     |       |    |    |  |       |  |  |   |  |  |          |  |     |     |     |       |    |    |  |       |      |  |  |  |  |          |  |    |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |     |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |    |  |     |       |    |    |  |  |      |  |  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| CITY AND STATE<br><div style="text-align: center; font-weight: bold;">SPOKANE, WA</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                        |                        |                  | ELEVATION: <b>1957</b> <b>TDZE: 1957</b><br>AIRPORT NAME:<br><div style="text-align: center; font-weight: bold;">FELTS FIELD</div> |            |            | FACILITY IDENTIFIER:<br><div style="text-align: center; font-weight: bold;">I-FLZ</div> |             | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:<br><div style="text-align: center; font-weight: bold;">ILS OR LOC RWY 22R, AMDT 1D</div><br><div style="text-align: center;">21 JULY 2016</div> |                |                                                                                                                                                                                                                                                                                                                                                                      | SUP: <b>ILS OR LOC/DME<br/>RWY 22R</b><br>AMDT: <b>1C</b><br>DATED: <b>02/04/2016</b> |                            |            |            |             |             |       |     |            |            |       |             |               |                |                                    |                                       |                            |     |     |     |    |    |  |  |  |  |  |  |  |  |  |   |     |     |       |    |    |  |  |  |  |  |  |  |          |  |    |     |     |       |    |    |  |       |  |  |   |  |  |          |  |     |     |     |       |    |    |  |       |      |  |  |  |  |          |  |    |       |     |       |    |    |  |  |  |  |  |  |  |  |  |   |       |     |     |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |  |  |  |  |  |  |          |  |     |       |     |       |    |    |  |       |      |  |  |  |  |          |  |    |  |     |       |    |    |  |  |      |  |  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|                                                                                                                                                                                               |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------|------------------------|-----|------------------------|------------|------------------|-------------|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| <b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b><br><b>LOC STANDARD INSTRUMENT APPROACH PROCEDURE</b><br><b>FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25</b> |            |                       |             |                        |     |                        |            |                  |             |               |                | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |                                       |                            |
| ARINC SUMMARY - KSFF                                                                                                                                                                          |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| ROUTES                                                                                                                                                                                        |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| TRANSITION                                                                                                                                                                                    | WPT<br>SEQ | WPT<br>NAME           | LEG<br>TYPE | FB/FO                  | RNP | MAG<br>CRS             | REC<br>NAV | ANGLE            | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE                                                                                                                                                                                                                                                                                                                                   | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
| GEG                                                                                                                                                                                           | 010        | GEG                   | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | V                          |
| GEG                                                                                                                                                                                           | 020        | AZTEM                 | TF          | FO                     |     |                        |            |                  |             |               |                | AA 07200                                                                                                                                                                                                                                                                                                                                                             |                                       | EY                         |
| GEG                                                                                                                                                                                           | 030        | AZTEM                 | HF          | FO                     |     | 221.2                  |            |                  | L           |               |                | AA 07100                                                                                                                                                                                                                                                                                                                                                             |                                       | E A                        |
| GEG                                                                                                                                                                                           | 040        | DIYSA                 | CF          | FB                     |     | 221.2                  | IFLZ       |                  |             |               |                | AA 05700                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
| HILIE                                                                                                                                                                                         | 010        | HILIE                 | IF          | FB                     |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       | E                          |
| HILIE                                                                                                                                                                                         | 020        | COE                   | TF          | FB                     |     |                        |            |                  |             |               |                | AA 07900                                                                                                                                                                                                                                                                                                                                                             |                                       | V A                        |
| HILIE                                                                                                                                                                                         | 030        | AZTEM                 | TF          | FB                     |     |                        |            |                  |             |               |                | AA 07100                                                                                                                                                                                                                                                                                                                                                             |                                       | E B                        |
| HILIE                                                                                                                                                                                         | 040        | DIYSA                 | CF          | FB                     |     | 221.2                  | IFLZ       |                  |             |               |                | AA 05700                                                                                                                                                                                                                                                                                                                                                             |                                       | EE                         |
|                                                                                                                                                                                               | 010        | DIYSA                 | IF          | FB                     |     |                        | IFLZ       |                  |             |               |                | AA 05700                                                                                                                                                                                                                                                                                                                                                             |                                       | E I                        |
|                                                                                                                                                                                               | 020        | HANSN                 | CF          | FB                     |     | 221.0                  | IFLZ       |                  |             | GEG           |                | AA 04300                                                                                                                                                                                                                                                                                                                                                             |                                       | E F                        |
|                                                                                                                                                                                               | 021        | LOLCI                 | CF          | FB                     |     | 221.0                  | IFLZ       | 3.61             |             |               |                | AA 03000                                                                                                                                                                                                                                                                                                                                                             |                                       | E S                        |
|                                                                                                                                                                                               | 030        | IZELY                 | CF          | FO                     |     | 221.0                  | IFLZ       | 3.61             |             |               |                | AT 02053                                                                                                                                                                                                                                                                                                                                                             |                                       | EY M                       |
|                                                                                                                                                                                               | 040        |                       | CA          | FB                     |     | 221.2                  |            |                  |             |               |                | AA 03300                                                                                                                                                                                                                                                                                                                                                             |                                       | M                          |
|                                                                                                                                                                                               | 050        |                       | VI          | FB                     |     | 200.0                  |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
|                                                                                                                                                                                               | 060        | GEG                   | CF          | FO                     |     | 253.0                  | GEG        |                  |             |               |                | AA 05000                                                                                                                                                                                                                                                                                                                                                             |                                       | VY                         |
|                                                                                                                                                                                               | 070        | GEG                   | HM          | FO                     |     | 028.0                  |            |                  | R           |               |                | AA 05000                                                                                                                                                                                                                                                                                                                                                             |                                       | VE                         |
| POINTS                                                                                                                                                                                        |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| POINT NAME                                                                                                                                                                                    |            |                       | LATITUDE    |                        |     | LONGITUDE              |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| COE                                                                                                                                                                                           |            |                       | N474625.31  |                        |     | W1164914.12            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| GEG                                                                                                                                                                                           |            |                       | N473353.81  |                        |     | W1173736.79            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| IFLZ (DME)                                                                                                                                                                                    |            |                       | N474053.84  |                        |     | W1171942.22            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HILIE                                                                                                                                                                                         |            |                       | N473105.33  |                        |     | W1164122.93            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| AZTEM                                                                                                                                                                                         |            |                       | N474918.50  |                        |     | W1170016.41            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| DIYSA                                                                                                                                                                                         |            |                       | N474651.97  |                        |     | W1170556.46            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| HANSN                                                                                                                                                                                         |            |                       | N474427.30  |                        |     | W1171130.89            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| IZELY                                                                                                                                                                                         |            |                       | N474116.59  |                        |     | W1171849.98            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| LOLCI                                                                                                                                                                                         |            |                       | N474237.13  |                        |     | W1171544.79            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| IFLZ (LOC)                                                                                                                                                                                    |            |                       | N474054.36  |                        |     | W1171941.03            |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAYS                                                                                                                                                                                       |            |                       |             |                        |     |                        |            |                  |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RUNWAY                                                                                                                                                                                        |            | THRESHOLD<br>LATITUDE |             | THRESHOLD<br>LONGITUDE |     | THRESHOLD<br>ELEVATION |            | PROCEDURE<br>TCH |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |
| RW22R                                                                                                                                                                                         |            | N474111.10            |             | W1171859.67            |     | 01957                  |            | 42.6             |             |               |                |                                                                                                                                                                                                                                                                                                                                                                      |                                       |                            |

QUALITY  
28  
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|                                      |                                     |                   |                      |                                                        |                            |
|--------------------------------------|-------------------------------------|-------------------|----------------------|--------------------------------------------------------|----------------------------|
| CITY AND STATE<br><b>SPOKANE, WA</b> | ELEVATION: <b>1957</b>              | TDZE: <b>1957</b> | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:             | SUP: <b>ILS OR LOC/DME</b> |
|                                      | AIRPORT NAME:<br><b>FELTS FIELD</b> |                   | <b>I-FLZ</b>         | <b>ILS OR LOC RWY 22R, AMDT 1D</b><br><br>21 JULY 2016 | <b>RWY 22R</b>             |
|                                      |                                     |                   |                      |                                                        | <b>1C</b>                  |
|                                      |                                     |                   |                      |                                                        | DATED: <b>02/04/2016</b>   |

|                                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|----------------|------------|-------|----------------------|------|----------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------|-----|-----|---------|--|--|--|--|
| U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION<br>VOR STANDARD INSTRUMENT APPROACH PROCEDURE<br>FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23 |      |                 |                |            |       |                      |      |                                        |         | Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR. |     |                                                        |     |     |         |  |  |  |  |
| TERMINAL ROUTES                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         | MISSED APPROACH                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| FROM                                                                                                                                                                    |      |                 | TO             |            |       | COURSE AND DISTANCE  |      |                                        |         | ALTITUDE                                                                                                                                                                                                                                                                                                                                                             |     | MAP: GEG 13.82 DME FIX                                 |     |     |         |  |  |  |  |
| GEG VORTAC (IF/IAF)                                                                                                                                                     |      |                 | LOWAL/7.53 DME |            |       | 039.13 / 7.53        |      |                                        |         | 4000                                                                                                                                                                                                                                                                                                                                                                 |     | CLIMBING LEFT TURN TO 4500 DIRECT GEG VORTAC AND HOLD. |     |     |         |  |  |  |  |
|                                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         | ADDITIONAL FLIGHT DATA:<br>HOLD SW, RT, 028.00 INBOUND.<br>FAS OBST: 2579 AAO 473757N/1172239W<br>LOWAL TO RW04L: 3.00/50.<br>CHART CIRCLING ICON.<br>CHART VDP AT 10.82 DME<br>DIST VDP TO THLD 3.00 MILES                                                                                                                                                          |     |                                                        |     |     |         |  |  |  |  |
| 1. PT <u>L</u> SIDE OF COURSE <u>219.13</u> OUTBOUND <u>4500</u> FT WITHIN <u>10</u> MILES OF <u>GEG VORTAC</u> (IAF)                                                   |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| 2.                                                                                                                                                                      |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| 3. FAC <u>039.13</u> FAF <u>LOWAL/7.53 DME</u> DIST FAF TO MAP <u>        </u> THLD <u>6.29</u>                                                                         |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| 4. MIN. ALT <u>GEG VORTAC 4500, LOWAL 4000</u>                                                                                                                          |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| 8. MSA FROM: <u>GEG VORTAC 360-180 6500, 180-360 5300</u>                                                                                                               |      |                 |                |            |       |                      |      |                                        |         | MAG VAR: <u>21E</u> EPOCH YEAR: <u>1975</u>                                                                                                                                                                                                                                                                                                                          |     |                                                        |     |     |         |  |  |  |  |
| MINIMUMS                                                                                                                                                                |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         | ALTERNATE: N A                                                                                                                                                                                                                                                                                                                                                       |     | @                                                      |     |     |         |  |  |  |  |
| CATEGORY =====>                                                                                                                                                         |      | A               |                |            | B     |                      |      | C                                      |         |                                                                                                                                                                                                                                                                                                                                                                      | D   |                                                        |     | E   |         |  |  |  |  |
|                                                                                                                                                                         | MDA  | VIS             | HAT/HAA        | MDA        | VIS   | HAT/HAA              | MDA  | VIS                                    | HAT/HAA | MDA                                                                                                                                                                                                                                                                                                                                                                  | VIS | HAT/HAA                                                | MDA | VIS | HAT/HAA |  |  |  |  |
| S-04L                                                                                                                                                                   | 2960 | 1 1/4           | 1011           | 2960       | 1 1/2 | 1011                 | 2960 | 3                                      | 1011    | 2960                                                                                                                                                                                                                                                                                                                                                                 | 3   | 1011                                                   |     |     |         |  |  |  |  |
| CIRCLING                                                                                                                                                                | 2960 | 1 1/4           | 1003           | 2960       | 1 1/2 | 1003                 | 3020 | 3                                      | 1063    | 3360                                                                                                                                                                                                                                                                                                                                                                 | 3   | 1403                                                   |     |     |         |  |  |  |  |
|                                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
|                                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
|                                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| NOTES:                                                                                                                                                                  |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| CHART NOTE: CIRCLING NA NW OF RWY 4L-22R.                                                                                                                               |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| CHART NOTE: VDP NA WHEN USING SPOKANE INTL ALTIMETER SETTING.                                                                                                           |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON GEG VORTAC AIRWAY RADIALS 142 CW 241.                                                                                          |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.                                                                                                |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| (CONTINUED ON PAGE 2)                                                                                                                                                   |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     |                                                        |     |     |         |  |  |  |  |
| CITY AND STATE                                                                                                                                                          |      | ELEVATION: 1957 |                | TDZE: 1949 |       | FACILITY IDENTIFIER: |      | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: |         |                                                                                                                                                                                                                                                                                                                                                                      |     | SUP                                                    |     |     |         |  |  |  |  |
| SPOKANE, WA                                                                                                                                                             |      | AIRPORT NAME:   |                |            |       | GEG                  |      | VOR RWY 4L, AMDT 6                     |         |                                                                                                                                                                                                                                                                                                                                                                      |     | AMDT                                                   |     |     |         |  |  |  |  |
|                                                                                                                                                                         |      | FELTS FIELD     |                |            |       |                      |      | 21 JULY 2016                           |         |                                                                                                                                                                                                                                                                                                                                                                      |     | DATE                                                   |     |     |         |  |  |  |  |
|                                                                                                                                                                         |      |                 |                |            |       |                      |      |                                        |         |                                                                                                                                                                                                                                                                                                                                                                      |     | 02/04/2016                                             |     |     |         |  |  |  |  |

**VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

**NOTES, (CONT.):****CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SPOKANE INTL ALTIMETER SETTING AND****INCREASE ALL MDA 100 FEET.****CHART NOTE: DME REQUIRED.**

CITY AND STATE

SPOKANE, WA

**ELEVATION: 1957****TDZE: 1949**

AIRPORT NAME:

FELTS FIELD

FACILITY  
IDENTIFIER:

GEG

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**VOR RWY 4L, AMDT 6**

21 JULY 2016

SUP:

AMDT:

DATED: 02/04/2016

QUALITY  
4  
CHECKED  
SB

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

## VOR STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.23

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ARINC SUMMARY - KSFF

## ROUTES

| TRANSITION | WPT<br>SEQ | WPT<br>NAME | LEG<br>TYPE | FB/FO | RNP | MAG<br>CRS | REC<br>NAV | ANGLE | TURN<br>DIR | CENTER<br>FIX | TURN<br>RADIUS | ALTITUDE<br>DESCRIPTION<br>& VALUE | SPEED LIMIT<br>DESCRIPTION<br>& VALUE | WPT<br>DESCRIPTION<br>CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| GEG        | 010        | GEG         | PI          | FB    |     | 174.1      | GEG        |       | R           |               |                | AA 04500                           |                                       | VE A                       |
|            | 010        | GEG         | IF          | FB    |     |            |            |       |             |               |                | AA 04500                           |                                       | V I                        |
|            | 020        | LOWAL       | CF          | FB    |     | 039.1      | GEG        |       |             | GEG           |                | AA 04000                           |                                       | E F                        |
|            | 030        | RW04L       | CF          | FO    |     | 039.1      | GEG        | 3.00  |             |               |                | AT 01996                           |                                       | GY M                       |
|            | 040        | GEG         | DF          | FO    |     |            |            |       | L           |               |                | AA 04500                           |                                       | EYM                        |
|            | 050        | GEG         | HM          | FO    |     | 028.0      |            |       | R           |               |                | AA 04500                           |                                       | EE                         |

## POINTS

| POINT NAME | LATITUDE   | LONGITUDE   |
|------------|------------|-------------|
| GEG        | N473353.81 | W1173736.79 |
| LOWAL      | N473738.28 | W1172757.57 |

## RUNWAYS

| RUNWAY | THRESHOLD<br>LATITUDE | THRESHOLD<br>LONGITUDE | THRESHOLD<br>ELEVATION | PROCEDURE<br>TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW04L  | N474045.12            | W1171953.00            | 01946                  | 50.0             |

QUALITY  
28  
CHECKED

CITY AND STATE  
**SPOKANE, WA**

ELEVATION: **1957** TDZE: **1949**  
AIRPORT NAME:  
**FELTS FIELD**

FACILITY  
IDENTIFIER:  
**GEG**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**VOR RWY 4L, AMDT 6**  
21 JULY 2016

SUP:  
AMDT: **5B**  
DATED: **02/04/2016**



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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| City, State | Airport        | Effective Date | Amdt. No. |
|-------------|----------------|----------------|-----------|
| SUTTON, WV  | BRAXTON COUNTY | 21 JULY 2016   | 1         |

**TAKEOFF MINIMUMS:**

**RWY 2, 300-1.**

**RWY 20, 500-2 1/2 WITH MINIMUM CLIMB OF 290 FT PER NM TO 2400 OR 1200-3 FOR VCOA.**

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 2: CLIMB HEADING 015.70 TO 2200 BEFORE TURNING LEFT.**

**VISUAL CLIMB OVER AIRPORT:**

**RWY 20: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS SUTTON COUNTY AIRPORT AT OR ABOVE 2300 BEFORE PROCEEDING ON COURSE.**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 2, TERRAIN, FENCES, AND VEHICLES ON ROAD BEGINNING 61 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/1311 FT MSL. TERRAIN, FENCES, AND VEHICLES ON ROAD BEGINNING 77 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/1307 FT MSL. POLE AND TREES BEGINNING 56 FT FROM DER, 298 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/1409 FT MSL. TREES BEGINNING 22 FT FROM DER, 244 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/1417 FT MSL. TERRAIN AND TREES BEGINNING 556 FT FROM DER, 223 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/1399 FT MSL. TREES BEGINNING 1015 FT FROM DER, 260 FT RIGHT OF CENTERLINE, UP TO 106 FT AGL/1435 FT MSL. TREES BEGINNING 889 FT FROM DER, 233 FT LEFT OF CENTERLINE, UP TO 116 FT AGL/1445 FT MSL. TREES 4508 FT FROM DER, 1011 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/1484 FT MSL.**

**NOTE: RWY 20, FENCES, VEHICLES ON ROAD, POLES, AND TREES BEGINNING 197 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 49 FT AGL/1337 FT MSL. TREES BEGINNING 468 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/1324 FT MSL. TERRAIN AND TREES BEGINNING 72 FT FROM DER, 264 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/1435 FT MSL. TREES BEGINNING 26 FT FROM DER, 311 FT RIGHT OF CENTERLINE, UP TO 97 FT AGL/1376 FT MSL. TREES BEGINNING 1123 FT FROM DER, 54 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/1515 FT MSL. TREES BEGINNING 4425 FT FROM DER, 47 FT LEFT OF CENTERLINE, UP TO 93 AGL/1529 MSL. TREES BEGINNING 1.5 NM FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 111 FT AGL/1590 FT MSL. TREES 2.4 NM FROM DER, 3786 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1739 FT MSL.**

**CONTROLLING OBSTACLES:**

**RWY 2: 1484 FT MSL TREE 384218.62N/0803909.15W (CEILING). 1412 MSL TREE 384220.23N/0803901.21W (VISIBILITY).**

**RWY 20: 1739 FT MSL TREE 383846.05N/0803844.75W (CEILING, VISIBILITY). 1959 FT MSL AAO 383735.30N/0803903.80W (CLIMB GRADIENT). 2099 FT MSL AAO 383548.60N/0803911.80W (CLIMB-TO ALTITUDE).**

**RWY 20 (VCOA): 1959 FT MSL AAO 383735.30N/0803903.80W.**

**OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:**

**RWY 2 – 1861 FT MSL TOWER 384343.10N/0803950.70W.**

QUALITY  
5  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

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Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State | Airport        | Effective Date | Amdt. No. |
|-------------|----------------|----------------|-----------|
| SUTTON, WV  | BRAXTON COUNTY | 21 JULY 2016   | 1         |

**REMARKS:**

RWY 20 CLIMB GRADIENT WAS ROUNDED UP TO 290 FT PER NM FOR PUBLICATION (COMPUTES TO 282 FT PER NM).

**FLIGHT INSPECTED BY:**

*Digitally signed by*

**JULIE A MORGAN**

JOSEPH M GAINES

Jun 06, 2016

FICO

10/31/2014

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

*Digitally signed by*

**JULIE A MORGAN**

PETER GUIMOND

Jun 06, 2016

AJV-352

8/21/2014

**APPROVED BY:**

*Digitally signed by*

**JULIE A MORGAN**

SUSAN CRUMB

Jun 06, 2016

AJV-352

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZDC, ZID, CKB APP CON, ARPT MGR

**CHANGES:**

1. AMENDED ALL INSTANCES OF RWY 1 TO RWY 2 AND RWY 19 TO RWY 20.
2. AMENDED RWY 20 TAKEOFF MINIMUMS FROM NA - OBSTACLES TO READ 500-2 1/2 WITH MINIMUM CLIMB OF 290 FT PER NM TO 2400 OR 1200-3 FOR VCOA. ADDED RWY 20 VCOA.
3. AMENDED RWY 2 TAKEOFF MINIMUMS FROM 300-1 OR STANDARD WITH MINIMUM CLIMB OF 245 FT PER NM TO 2100 OR 1100-2 1/2 FOR CLIMB IN VISUAL CONDITIONS TO READ 300-1.
4. DELETED RWY 2 VCOA.
5. AMENDED RWY 2 DEPARTURE PROCEDURE TO READ CLIMB HEADING 015.70 TO 2200 BEFORE TURNING LEFT.
6. AMENDED RWY 2 CONTROLLING OBSTACLES AND TAKEOFF OBSTACLE NOTES.
7. ADDED CONTROLLING OBSTACLES AND TAKEOFF OBSTACLE NOTES FOR RWY 20.

**REASONS:**

1. EASTERN FPT REQUEST. AIRPORT WILL RENUMBER RUNWAYS TO REFLECT UPDATED AIRPORT MAGVAR.
2. EASTERN FPT REQUESTED A NEW EVALUATION TO DETERMINE IF IFR MINIMUMS WERE FEASIBLE.
3. NEW OBSTACLE STUDY.
4. NO LONGER REQUIRED.
5. REMOVED WORD VIA IAW CURRENT POLICY. HEADING AMENDED TO REFLECT MAGVAR UPDATE. CLIMB TO ALTITUDE INCREASED DUE TO NEW OBSTACLE STUDY.
6. NEW OBSTACLE STUDY.
7. IAW CURRENT DOCUMENTATION POLICY.

QUALITY  
5  
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| City, State   | Airport              | Effective Date | Amdt. No. |
|---------------|----------------------|----------------|-----------|
| BIG PINEY, WY | MILEY MEMORIAL FIELD | 21 JULY 2016   | ORIG-A    |

**TAKEOFF MINIMUMS:**

RWY 8, 26: NA – ENVIRONMENTAL.  
RWY 13, 31: STANDARD.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 13: CLIMB TO 8400 ON BPI VOR/DME R-124 BEFORE PROCEEDING ON COURSE.  
RWY 31: CLIMB TO 10800 ON BPI VOR/DME R-320 BEFORE PROCEEDING ON COURSE.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

RWY 13: BLDG 2 FEET FROM DER, 475 FEET LEFT OF CENTERLINE, 17 FEET AGL/6963 FEET MSL. TOWER 135 FEET FROM DER, 518 FEET LEFT OF CENTERLINE, 38 FEET AGL/6983 FEET MSL. BLDG 138 FEET FROM DER, 503 FEET LEFT OF CENTERLINE, 12 FEET AGL/6957 FEET MSL.  
RWY 31: FENCE 94 FEET FROM DER, 450 FEET RIGHT OF CENTERLINE, 10 FEET AGL/7003 FEET MSL.

**CONTROLLING OBSTACLES:**

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 13: 10308 FEET MSL TERRAIN 422357.00N-1102903.00W. RWY 31: 11339 FEET MSL TERRAIN 423615.00N-1103727.00W



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| City, State   | Airport              | Effective Date | Amdt. No. |
|---------------|----------------------|----------------|-----------|
| BIG PINEY, WY | MILEY MEMORIAL FIELD | 21 JULY 2016   | ORIG-A    |

**REMARKS:**

**FLIGHT INSPECTED BY:**

CHARLES D CUNNINGHAM

FICO

*Digitally signed by*  
**BEV L BORDY** 05/29/2016  
May 24, 2016

**DEVELOPED BY:**

ALAN WILL (IVAN BLANCO)

AJV-5432

*Digitally signed by*  
**BEV L BORDY** 3/18/16  
May 24, 2016

**APPROVED BY:**

LONNIE EVERHART

AJV-5430

*Digitally signed by*  
**BEV L BORDY**  
May 24, 2016

**COORDINATED WITH:**

APA, AOPA, NBAA, AFSS, ZLC, AMGR

**CHANGES:**

1. UPDATED TEXTUAL DEPARTURE INSTRUCTIONS TO CURRENT CRITERIA.
2. ADDED LOW-CLOSE-IN TAKEOFF OBSTACLE NOTES.
3. ADDED OBSTACLES MANDATING ROUTE.
4. UPDATED AIRPORT NAME.

**REASONS:**

1. TEXTUAL DEPARTURE INSTRUCTIONS DID NOT MEET CURRENT CRITERIA.
2. NEW SURVEY 11/11/2011.
3. NOT PREVIOUSLY LISTED.
4. UPDATED AIRPORT NAME DOCUMENTED IN AIRNAV.



[4910-13]

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 97**

[Docket No. [31083](#); Amdt. No. [3702](#)]

**Standard Instrument Approach Procedures, and Takeoff Minimums  
and Obstacle Departure Procedures; Miscellaneous Amendments**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** This rule amends, suspends, or removes Standard Instrument Approach Procedures (SIAPs) and associated Takeoff Minimums and Obstacle Departure Procedures for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, adding new obstacles, or changing air traffic requirements. These changes are designed to provide for the safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

**DATES:** This rule is effective [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]. The compliance date for each SIAP, associated Takeoff Minimums, and ODP is specified in the amendatory provisions.

The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**ADDRESSES:** Availability of matter incorporated by reference in the amendment is as follows:

**For Examination**

1. U.S. Department of Transportation, Docket Ops-M30, 1200 New Jersey Avenue SE, West Bldg., Ground Floor, Washington, D.C., 20590-0001;

2. The FAA Air Traffic Organization Service Area in which the affected airport is located;

3. The office of Aeronautical Navigation Products, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:

[http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

**Availability**

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center online at [nfdc.faa.gov](http://nfdc.faa.gov) to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from the FAA Air Traffic Organization Service Area in which the affected airport is located.

**FOR FURTHER INFORMATION CONTACT:** Thomas J. Nichols, Flight Procedure Standards Branch (AFS-420) Flight Technologies and Procedures Division, Flight Standards Service, Federal Aviation Administration, Mike Monroney Aeronautical Center, 6500 South MacArthur Blvd., Oklahoma City, OK. 73169 (Mail Address: P.O. Box 25082 Oklahoma City, OK. 73125) telephone: (405) 954-4164.

**SUPPLEMENTARY INFORMATION:**

This rule amends Title 14, Code of Federal Regulations, Part 97 (14 CFR part 97) by amending the referenced SIAPs. The complete regulatory description of each SIAP is listed on the appropriate FAA Form 8260, as modified by the National Flight Data Center (NFDC)/Permanent Notice to Airmen (P-NOTAM), and is incorporated by reference under 5 U.S.C. 552(a), 1 CFR part 51, and 14 CFR §97.20. The large number of SIAPs, their complex nature, and the need for a special format make their verbatim publication in the **Federal Register** expensive and impractical. Further, airmen do not use the regulatory text of the SIAPs, but refer to their graphic depiction on charts printed by publishers of aeronautical materials. Thus, the advantages of incorporation by reference are realized and publication of the complete description of each SIAP contained on FAA form documents is unnecessary.

This amendment provides the affected CFR sections, and specifies the SIAPs and Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure and the amendment number.

### **Availability and Summary of Material Incorporated by Reference**

The material incorporated by reference is publicly available as listed in the ADDRESSES section.

The material incorporated by reference describes SIAPs, Takeoff Minimums and ODPs as identified in the amendatory language for part 97 of this final rule.

### **The Rule**

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP and Takeoff Minimums and ODP as amended in the transmittal. For safety and timeliness of change considerations, this amendment incorporates only specific changes contained for each SIAP and Takeoff Minimums and ODP as modified by FDC permanent NOTAMs.

The SIAPs and Takeoff Minimums and ODPs, as modified by FDC permanent NOTAM, and contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these changes to SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied only to specific conditions existing at the affected



airports. All SIAP amendments in this rule have been previously issued by the FAA in a FDC NOTAM as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for these SIAP and Takeoff Minimums and ODP amendments require making them effective in less than 30 days.

Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C. 553(d), good cause exists for making these SIAPs effective in less than 30 days.

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore--(1) is not a "significant regulatory action" under Executive Order 12866;(2) is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034; February 26,1979) ; and (3)does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. For the same reason, the FAA certifies that this amendment will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

**List of Subjects in 14 CFR part 97:**

Air Traffic Control, Airports, Incorporation by reference,  
Navigation (Air).

Issued in Washington, DC on JUNE 17, 2016

A handwritten signature in black ink, appearing to read "John S. Duncan", with a long horizontal flourish extending to the right.

John S. Duncan  
Director, Flight Standards Service

**ADOPTION OF THE AMENDMENT**

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal regulations, Part 97, (14 CFR part 97), is amended by amending Standard Instrument Approach Procedures and Takeoff Minimums and ODPs, effective at 0901 UTC on the dates specified, as follows:

**PART 97 - STANDARD INSTRUMENT APPROACH PROCEDURES**

1. The authority citation for part 97 continues to read as follows:

AUTHORITY: 49 U.S.C. 106(f), 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

By amending: §97.23 VOR, VOR/DME, VOR or TACAN, and VOR/DME or TACAN; §97.25 LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME; §97.27 NDB, NDB/DME; §97.29 ILS, ILS/DME, MLS, MLS/DME, MLS/RNAV; §97.31 RADAR SIAPs; §97.33 RNAV SIAPs; and §97.35 COPTER SIAPs, Identified as follows:

.....EFFECTIVE UPON PUBLICATION

| AIRAC DATE | STATE | CITY           | AIRPORT                           | FDC NUMBER | FDC DATE | SUBJECT                          |
|------------|-------|----------------|-----------------------------------|------------|----------|----------------------------------|
| 21-Jul-16  | ID    | Bonnors Ferry  | Boundary County                   | 6/0359     | 6/1/16   | RNAV (GPS) RWY 2, Orig-D         |
| 21-Jul-16  | WA    | Ellensburg     | Bowers Field                      | 6/0363     | 6/1/16   | RNAV (GPS)-C, Orig-A             |
| 21-Jul-16  | OR    | Klamath Falls  | Klamath Falls                     | 6/0364     | 6/1/16   | ILS OR LOC/DME RWY 32, Amdt 20   |
| 21-Jul-16  | OR    | Klamath Falls  | Klamath Falls                     | 6/0365     | 6/1/16   | RNAV (GPS) RWY 14, Amdt 1        |
| 21-Jul-16  | OR    | Klamath Falls  | Klamath Falls                     | 6/0366     | 6/1/16   | RNAV (GPS) RWY 32, Orig          |
| 21-Jul-16  | OR    | Klamath Falls  | Klamath Falls                     | 6/0367     | 6/1/16   | VOR/DME OR TACAN RWY 14, Amdt 5B |
| 21-Jul-16  | OR    | Klamath Falls  | Klamath Falls                     | 6/0368     | 6/1/16   | VOR/DME OR TACAN RWY 32, Amdt 5  |
| 21-Jul-16  | HI    | Kahului        | Kahului                           | 6/0372     | 6/1/16   | ILS OR LOC RWY 2, Amdt 24        |
| 21-Jul-16  | HI    | Kahului        | Kahului                           | 6/0373     | 6/1/16   | RNAV (GPS) RWY 23, Amdt 1        |
| 21-Jul-16  | HI    | Kahului        | Kahului                           | 6/0374     | 6/1/16   | NDB RWY 2, Orig-A                |
| 21-Jul-16  | HI    | Kahului        | Kahului                           | 6/0375     | 6/1/16   | RNAV (GPS) Y RWY 2, Amdt 1A      |
| 21-Jul-16  | HI    | Kahului        | Kahului                           | 6/0376     | 6/1/16   | VOR RWY 20, Orig-B               |
| 21-Jul-16  | HI    | Kahului        | Kahului                           | 6/0377     | 6/1/16   | VOR/DME OR TACAN RWY 20, Orig-A  |
| 21-Jul-16  | OK    | Norman         | University Of Oklahoma Westheimer | 6/0597     | 6/1/16   | ILS OR LOC RWY 18, Amdt 2        |
| 21-Jul-16  | GA    | Macon          | Middle Georgia Rgnl               | 6/0626     | 6/1/16   | VOR RWY 23, Amdt 4B              |
| 21-Jul-16  | IA    | Iowa City      | Iowa City Muni                    | 6/0873     | 6/1/16   | RNAV (GPS) RWY 25, Orig-A        |
| 21-Jul-16  | IA    | Iowa City      | Iowa City Muni                    | 6/0875     | 6/1/16   | RNAV (GPS) RWY 30, Orig          |
| 21-Jul-16  | IA    | Iowa City      | Iowa City Muni                    | 6/0877     | 6/1/16   | VOR-A, Orig                      |
| 21-Jul-16  | NY    | New York       | John F Kennedy Intl               | 6/1525     | 6/8/16   | VOR OR GPS RWY 13 L/R, Amdt 18C  |
| 21-Jul-16  | VA    | Wallops Island | Wallops Flight Facility           | 6/1930     | 6/6/16   | RNAV (GPS) RWY 35, Orig-A        |
| 21-Jul-16  | VA    | Wallops Island | Wallops Flight Facility           | 6/1931     | 6/6/16   | RNAV (GPS) RWY 28, Amdt 1A       |
| 21-Jul-16  | VA    | Wallops Island | Wallops Flight Facility           | 6/1932     | 6/6/16   | RNAV (GPS) RWY 22, Amdt 1A       |
| 21-Jul-16  | VA    | Wallops Island | Wallops Flight Facility           | 6/1933     | 6/6/16   | RNAV (GPS) RWY 17, Amdt 1A       |
| 21-Jul-16  | VA    | Wallops Island | Wallops Flight Facility           | 6/1934     | 6/6/16   | RNAV (GPS) RWY 4, Amdt 1A        |
| 21-Jul-16  | VA    | Wallops Island | Wallops Flight Facility           | 6/1935     | 6/6/16   | VOR/DME OR TACAN RWY 10, Amdt 6A |

|           |    |               |                                        |        |        |                               |
|-----------|----|---------------|----------------------------------------|--------|--------|-------------------------------|
| 21-Jul-16 | MN | Worthington   | Worthington Muni                       | 6/2157 | 6/1/16 | RNAV (GPS) RWY 36, Orig       |
| 21-Jul-16 | MN | Worthington   | Worthington Muni                       | 6/2161 | 6/1/16 | RNAV (GPS) RWY 18, Orig-A     |
| 21-Jul-16 | GA | Nahunta       | Brantley County                        | 6/2946 | 6/2/16 | RNAV (GPS) Z RWY 19, Orig-A   |
| 21-Jul-16 | NJ | Woodbine      | Woodbine Muni                          | 6/3045 | 6/6/16 | VOR-A, Amdt 1                 |
| 21-Jul-16 | NJ | Woodbine      | Woodbine Muni                          | 6/3049 | 6/6/16 | RNAV (GPS) RWY 1, Orig-A      |
| 21-Jul-16 | OH | Findlay       | Findlay                                | 6/3263 | 6/2/16 | RNAV (GPS) RWY 7, Orig        |
| 21-Jul-16 | SD | Pierre        | Pierre Rgnl                            | 6/3272 | 6/2/16 | ILS OR LOC RWY 31, Amdt 12B   |
| 21-Jul-16 | TX | Fort Stockton | Fort Stockton-Pecos County             | 6/4698 | 6/2/16 | VOR RWY 12, Amdt 8            |
| 21-Jul-16 | TX | Fort Stockton | Fort Stockton-Pecos County             | 6/4700 | 6/2/16 | VOR/DME RWY 30, Orig          |
| 21-Jul-16 | WI | New Richmond  | New Richmond Rgnl                      | 6/4895 | 6/2/16 | RNAV (GPS) RWY 14, Amdt 2B    |
| 21-Jul-16 | AK | Hooper Bay    | Hooper Bay                             | 6/5332 | 6/8/16 | VOR/DME RWY 31, ORIG-B        |
| 21-Jul-16 | AK | Hooper Bay    | Hooper Bay                             | 6/5333 | 6/8/16 | RNAV (GPS) RWY 31, Amdt 1A    |
| 21-Jul-16 | AK | Hooper Bay    | Hooper Bay                             | 6/5334 | 6/8/16 | RNAV (GPS) RWY 13, Amdt 1A    |
| 21-Jul-16 | FL | Apalachicola  | Apalachicola Rgnl-Cleve Randolph Field | 6/5410 | 6/1/16 | RNAV (GPS) RWY 32, Amdt 2B    |
| 21-Jul-16 | FL | Apalachicola  | Apalachicola Rgnl-Cleve Randolph Field | 6/5411 | 6/1/16 | RNAV (GPS) RWY 24, Amdt 1B    |
| 21-Jul-16 | RI | Newport       | Newport State                          | 6/5415 | 6/6/16 | LOC RWY 22, Amdt 7C           |
| 21-Jul-16 | RI | Newport       | Newport State                          | 6/5416 | 6/6/16 | RNAV (GPS) RWY 16, Orig-A     |
| 21-Jul-16 | RI | Newport       | Newport State                          | 6/5417 | 6/6/16 | VOR/DME RWY 16, Amdt 1A       |
| 21-Jul-16 | RI | Pawtucket     | North Central State                    | 6/5419 | 6/6/16 | VOR-A, Amdt 7A                |
| 21-Jul-16 | RI | Pawtucket     | North Central State                    | 6/5420 | 6/6/16 | VOR-B, Amdt 7A                |
| 21-Jul-16 | MA | Plymouth      | Plymouth Muni                          | 6/5422 | 6/6/16 | ILS OR LOC/DME RWY 6, Amdt 1D |
| 21-Jul-16 | MA | Plymouth      | Plymouth Muni                          | 6/5423 | 6/6/16 | RNAV (GPS) RWY 6, Amdt 1B     |
| 21-Jul-16 | RI | Providence    | Theodore Francis Green State           | 6/5424 | 6/6/16 | ILS OR LOC RWY 34, Amdt 12    |
| 21-Jul-16 | RI | Providence    | Theodore Francis Green State           | 6/5429 | 6/6/16 | RNAV (GPS) RWY 5, Orig-A      |
| 21-Jul-16 | RI | Providence    | Theodore Francis Green State           | 6/5430 | 6/6/16 | VOR/DME RWY 23, Amdt 6F       |
| 21-Jul-16 | RI | Providence    | Theodore Francis Green State           | 6/5431 | 6/6/16 | VOR RWY 5, Amdt 14A           |

|           |    |                     |                                  |        |        |                                                                                                         |
|-----------|----|---------------------|----------------------------------|--------|--------|---------------------------------------------------------------------------------------------------------|
| 21-Jul-16 | RI | Providence          | Theodore Francis Green State     | 6/5432 | 6/6/16 | ILS OR LOC RWY 23,<br>ILS RWY 23 (SA CAT I),<br>ILS RWY 23 (SA CAT II),<br>Amdt 7                       |
| 21-Jul-16 | RI | Providence          | Theodore Francis Green State     | 6/5436 | 6/6/16 | ILS OR LOC RWY 5,<br>ILS RWY 5 (CAT II),<br>ILS RWY 5 (CAT III),<br>Amdt 19                             |
| 21-Jul-16 | MA | Norwood             | Norwood Memorial                 | 6/5442 | 6/6/16 | LOC RWY 35, Amdt 10D                                                                                    |
| 21-Jul-16 | RI | North Kingstown     | Quonset State                    | 6/5443 | 6/6/16 | VOR RWY 34, Amdt 2B                                                                                     |
| 21-Jul-16 | RI | North Kingstown     | Quonset State                    | 6/5444 | 6/6/16 | VOR-A, Amdt 5C                                                                                          |
| 21-Jul-16 | CT | Groton (New London) | Groton-New London                | 6/5454 | 6/6/16 | RNAV (GPS) RWY 23,<br>Orig-C                                                                            |
| 21-Jul-16 | CT | Groton (New London) | Groton-New London                | 6/5455 | 6/6/16 | VOR RWY 23, Amdt 10B                                                                                    |
| 21-Jul-16 | MA | Falmouth            | Cape Cod Coast Guard Air Station | 6/5460 | 6/6/16 | ILS OR LOC RWY 32,<br>Amdt 1A                                                                           |
| 21-Jul-16 | MA | New Bedford         | New Bedford Rgnl                 | 6/5461 | 6/6/16 | ILS OR LOC RWY 5,<br>Amdt 26                                                                            |
| 21-Jul-16 | MA | New Bedford         | New Bedford Rgnl                 | 6/5462 | 6/6/16 | RNAV (GPS) RWY 5,<br>Amdt 1                                                                             |
| 21-Jul-16 | MA | Southbridge         | Southbridge Muni                 | 6/5466 | 6/6/16 | RNAV (GPS) RWY 2, Orig-A                                                                                |
| 21-Jul-16 | MA | Taunton             | Taunton Muni - King Field        | 6/5488 | 6/6/16 | NDB RWY 30, Amdt 5B                                                                                     |
| 21-Jul-16 | LA | Houma               | Houma-Terrebonne                 | 6/5896 | 6/6/16 | COPTER VOR/DME RWY 12, Amdt 4                                                                           |
| 21-Jul-16 | LA | Houma               | Houma-Terrebonne                 | 6/5898 | 6/6/16 | RNAV (GPS) RWY 18,<br>Orig                                                                              |
| 21-Jul-16 | LA | Houma               | Houma-Terrebonne                 | 6/5899 | 6/6/16 | RNAV (GPS) RWY 36,<br>Orig                                                                              |
| 21-Jul-16 | LA | Houma               | Houma-Terrebonne                 | 6/5900 | 6/6/16 | VOR/DME RWY 30,<br>Amdt 12                                                                              |
| 21-Jul-16 | LA | Thibodaux           | Thibodaux Muni                   | 6/5903 | 6/6/16 | VOR OR GPS-A, Amdt 1A                                                                                   |
| 21-Jul-16 | LA | New Orleans         | Louis Armstrong New Orleans Intl | 6/5915 | 6/7/16 | RNAV (GPS) Y RWY 11,<br>Amdt 2                                                                          |
| 21-Jul-16 | LA | New Orleans         | Louis Armstrong New Orleans Intl | 6/5916 | 6/7/16 | RNAV (RNP) Z RWY 11,<br>Amdt 1                                                                          |
| 21-Jul-16 | LA | New Orleans         | Louis Armstrong New Orleans Intl | 6/5917 | 6/7/16 | VOR/DME RWY 11,<br>Amdt 1                                                                               |
| 21-Jul-16 | LA | New Orleans         | Louis Armstrong New Orleans Intl | 6/5918 | 6/7/16 | ILS OR LOC RWY 11,<br>ILS RWY 11 (SA CAT I),<br>ILS RWY 11 (CAT II),<br>ILS RWY 11 (CAT III),<br>Amdt 3 |
| 21-Jul-16 | AZ | Kingman             | Kingman                          | 6/5919 | 6/8/16 | VOR/DME RWY 21,<br>AMDT 7B                                                                              |

|           |    |                |                                   |        |         |                                |
|-----------|----|----------------|-----------------------------------|--------|---------|--------------------------------|
| 21-Jul-16 | LA | Patterson      | Harry P Williams Memorial         | 6/5938 | 6/15/16 | RNAV (GPS) RWY 6, Orig-A       |
| 21-Jul-16 | LA | Patterson      | Harry P Williams Memorial         | 6/5940 | 6/15/16 | RNAV (GPS) RWY 24, Amdt 1B     |
| 21-Jul-16 | CA | Paso Robles    | Paso Robles Muni                  | 6/5958 | 6/8/16  | RNAV (GPS) RWY 31, Orig        |
| 21-Jul-16 | LA | Patterson      | Harry P Williams Memorial         | 6/5959 | 6/15/16 | ILS OR LOC/DME RWY 24, Amdt 2D |
| 21-Jul-16 | IA | Oelwein        | Oelwein Muni                      | 6/5960 | 6/7/16  | VOR OR GPS-A, Amdt 3A          |
| 21-Jul-16 | IA | Waverly        | Waverly Muni                      | 6/5962 | 6/7/16  | VOR-A, Amdt 3A                 |
| 21-Jul-16 | IA | Waterloo       | Waterloo Rgnl                     | 6/5963 | 6/7/16  | ILS OR LOC RWY 12, Amdt 9      |
| 21-Jul-16 | IA | Waterloo       | Waterloo Rgnl                     | 6/5964 | 6/7/16  | LOC BC RWY 30, Amdt 11A        |
| 21-Jul-16 | IA | Waterloo       | Waterloo Rgnl                     | 6/5965 | 6/7/16  | VOR RWY 6, Amdt 3              |
| 21-Jul-16 | IA | Waterloo       | Waterloo Rgnl                     | 6/5966 | 6/7/16  | VOR RWY 12, Amdt 10            |
| 21-Jul-16 | IA | Waterloo       | Waterloo Rgnl                     | 6/5967 | 6/7/16  | VOR RWY 18, Amdt 8A            |
| 21-Jul-16 | IA | Waterloo       | Waterloo Rgnl                     | 6/5968 | 6/7/16  | VOR RWY 24, Amdt 16A           |
| 21-Jul-16 | LA | Galliano       | South Lafourche Leonard Miller Jr | 6/5972 | 6/6/16  | ILS OR LOC/DME RWY 36, Amdt 1  |
| 21-Jul-16 | LA | Galliano       | South Lafourche Leonard Miller Jr | 6/5973 | 6/6/16  | RNAV (GPS) RWY 18, Amdt 2      |
| 21-Jul-16 | LA | Galliano       | South Lafourche Leonard Miller Jr | 6/5974 | 6/6/16  | RNAV (GPS) RWY 36, Amdt 1      |
| 21-Jul-16 | VA | Wallops Island | Wallops Flight Facility           | 6/6317 | 6/6/16  | VOR OR TACAN RWY 17, Amdt 7A   |
| 21-Jul-16 | KS | Smith Center   | Smith Center Muni                 | 6/6870 | 6/2/16  | RNAV (GPS) RWY 32, Orig        |
| 21-Jul-16 | KS | Smith Center   | Smith Center Muni                 | 6/6880 | 6/2/16  | RNAV (GPS) RWY 14, Orig        |
| 21-Jul-16 | FL | Tallahassee    | Tallahassee Intl                  | 6/6953 | 6/8/16  | RNAV (GPS) RWY 27, Amdt 2      |
| 21-Jul-16 | WV | Beckley        | Raleigh County Memorial           | 6/7099 | 6/1/16  | ILS OR LOC RWY 19, Amdt 6A     |
| 21-Jul-16 | WV | Beckley        | Raleigh County Memorial           | 6/7100 | 6/1/16  | RNAV (GPS) RWY 19, Amdt 1A     |
| 21-Jul-16 | WV | Beckley        | Raleigh County Memorial           | 6/7101 | 6/1/16  | RNAV (GPS) RWY 10, Amdt 1A     |
| 21-Jul-16 | WV | Beckley        | Raleigh County Memorial           | 6/7102 | 6/1/16  | RNAV (GPS) RWY 1, Amdt 1A      |
| 21-Jul-16 | WV | Beckley        | Raleigh County Memorial           | 6/7104 | 6/1/16  | RNAV (GPS) RWY 28, Amdt 1A     |
| 21-Jul-16 | MI | Lambertville   | Toledo Suburban                   | 6/7937 | 6/1/16  | VOR OR GPS-A, Amdt 7           |
| 21-Jul-16 | TX | Terrell        | Terrell Muni                      | 6/7945 | 6/6/16  | RNAV (GPS) RWY 17, Orig        |
| 21-Jul-16 | NJ | Newark         | Newark Liberty Intl               | 6/8187 | 6/8/16  | RNAV (GPS) RWY 11, Orig-D      |

|           |    |                |                               |        |        |                                |
|-----------|----|----------------|-------------------------------|--------|--------|--------------------------------|
| 21-Jul-16 | NJ | Newark         | Newark Liberty Intl           | 6/8188 | 6/8/16 | RNAV (GPS) RWY 22R, Amdt 1C    |
| 21-Jul-16 | NJ | Newark         | Newark Liberty Intl           | 6/8189 | 6/8/16 | COPTER ILS/DME RWY 22L, Orig-C |
| 21-Jul-16 | VT | Burlington     | Burlington Intl               | 6/8795 | 6/8/16 | ILS OR LOC/DME RWY 15, Amdt 24 |
| 21-Jul-16 | MA | Beverly        | Beverly Muni                  | 6/8823 | 6/8/16 | VOR RWY 16, Amdt 5B            |
| 21-Jul-16 | MA | Beverly        | Beverly Muni                  | 6/8843 | 6/8/16 | RNAV (GPS) RWY 27, Orig-C      |
| 21-Jul-16 | MA | Beverly        | Beverly Muni                  | 6/8850 | 6/8/16 | LOC RWY 16, Amdt 7B            |
| 21-Jul-16 | MA | Beverly        | Beverly Muni                  | 6/8851 | 6/8/16 | RNAV (GPS) RWY 16, Amdt 1C     |
| 21-Jul-16 | MA | Beverly        | Beverly Muni                  | 6/8853 | 6/8/16 | RNAV (GPS) RWY 34, Orig-B      |
| 21-Jul-16 | SC | Mount Pleasant | Mt Pleasant Rgnl-Faison Field | 6/9457 | 6/8/16 | RNAV (GPS) RWY 35, Orig-B      |
| 21-Jul-16 | SC | Mount Pleasant | Mt Pleasant Rgnl-Faison Field | 6/9459 | 6/8/16 | VOR/DME-A, Amdt 1A             |
| 21-Jul-16 | SC | Mount Pleasant | Mt Pleasant Rgnl-Faison Field | 6/9460 | 6/8/16 | RNAV (GPS) RWY 17, Orig-B      |



**AIRAC Date: 21 JULY 2016**

FDC **6/0359** 65S IAP BOUNDARY COUNTY, BONNERS FERRY, ID. RNAV (GPS) RWY 2, ORIG-D... TDZE 2316. LNAV\* HAT 944 ALL CATS, LNAV# HAT 1564 ALL CATS, LNAV HAT 2164 ALL CATS. DELETE PROFILE NOTE: DESCENT ANGLE NOT AUTHORIZED.. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. CHANGE MISSED APPROACH TO READ: CLIMBING LEFT TURN TO 8600 DIRECT WEBDA AND ON TRACK 158 TO HITRU, CONTINUE CLIMB IN HOLD TO 8600.. THIS IS RNAV (GPS) RWY 2, ORIG-E. 1605261150-PERM

FDC **6/0363** ELN IAP BOWERS FIELD, ELLENSBURG, WA. RNAV (GPS)-C, ORIG-A... DELETE NOTE: CIRCLING TO RUNWAY 25 NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA.. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ELN VORTAC AIRWAY RADIALS 253 CW 003.. THIS IS RNAV (GPS)-C, ORIG-B. 1605261157-PERM

FDC **6/0364** LMT IAP KLAMATH FALLS, KLAMATH FALLS, OR. ILS OR LOC/DME RWY 32, AMDT 20... CHART CIRCLING ICON. CHART NOTE: CIRCLING NA FOR CAT D EAST OF RWY 14-32. DELETE NOTE: ASR/PAR. CHANGE ALL REFERENCES TO KLAMATH FALLS TO READ CRATER LAKE-KLAMATH RGNL. CIRCLING MDA CAT C 5420/HAA 1325 VIS 3, CAT D 5660/HAA 1565. ALTERNATE MINIMUMS: ILS: CAT A 800-2, CAT B 900-2, CAT C 1400-3, CAT D 1600-3. LOC: STANDARD, EXCEPT CAT B 900-2, CAT C 1400-3, CAT D 1600-3. ILS/LOC: NA WHEN CONTROL TOWER CLOSED. THIS IS ILS OR LOC/DME RWY 32, AMDT 20A. 1605261200-PERM

FDC **6/0365** LMT IAP KLAMATH FALLS, KLAMATH FALLS, OR. RNAV (GPS) RWY 14, AMDT 1... DELETE NOTE: VISIBILITY REDUCTION NOTE BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART CIRCLING ICON. CHART NOTE: CIRCLING NA FOR CAT D EAST OF RWY 14-32. CHANGE ALL REFERENCES TO KLAMATH FALLS TO READ CRATER LAKE-KLAMATH RGNL. CIRCLING MDA CAT C 5420/HAA 1325 VIS 3, CAT D 5660/HAA 1565. ALTERNATE MINIMUMS: CAT A/B 900-2, CAT C 1400-3, CAT D 1600-3. DELETE: ASR/PAR. THIS IS RNAV (GPS) RWY 14, AMDT 1A. 1605261200-PERM

FDC **6/0366** LMT IAP KLAMATH FALLS, KLAMATH FALLS, OR. RNAV (GPS) RWY 32, ORIG... CHART NOTE: CIRCLING NA FOR CAT D EAST OF RWY 14-32. DELETE: ASR/PAR. CHART CIRCLING ICON. CHANGE ALL REFERENCES TO KLAMATH FALLS TO READ CRATER LAKE-KLAMATH RGNL. CIRCLING MDA CAT C 5420/HAA 1325 VIS 3, CAT D 5660/HAA 1565. ALTERNATE MINIMUMS: STANDARD, EXCEPT CAT B 900-2, CAT C 1400-3, CAT D 1600-3. THIS IS RNAV (GPS) RWY 32, ORIG-A. 1605261200-PERM

FDC **6/0367** LMT IAP KLAMATH FALLS, KLAMATH FALLS, OR. VOR/DME OR TACAN RWY 14, AMDT 5B... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART CIRCLING ICON.. DELETE NOTE: CIRCLING NA FOR CAT E EAST OF RWY 14-32. CHART NOTE: CIRCLING NA FOR CAT D AND E EAST OF RWY 14-32. CHANGE ALL REFERENCES TO KLAMATH FALLS TO READ CRATER LAKE-KLAMATH RGNL. CIRCLING MDA CAT C 5420/HAA 1325 VIS 3, CAT D 5660/HAA 1565 AND CAT E 5700/HAA 1605. ALTERNATE MINIMUMS: STANDARD, EXCEPT CAT B 900-2, CAT C 1400-3, CAT D 1600-3, CAT E 1700-3. DELETE: ASR/PAR. THIS IS VOR/DME OR TACAN RWY 14, AMDT 5C. 1605261200-PERM

FDC **6/0368** LMT IAP KLAMATH FALLS, KLAMATH FALLS, OR. VOR/DME OR TACAN RWY 32, AMDT 5... DELETE: ASR/PAR. CHANGE ALL REFERENCES TO KLAMATH FALLS TO READ CRATER LAKE-KLAMATH RGNL.. CIRCLING MDA CAT C 5420/HAA 1325 VIS 3, CAT D 5660/HAA 1565. CHART CIRCLING ICON. DELETE NOTE: CIRCLING NA FOR CAT E NE OF RWY 14-32. CHART NOTE: CIRCLING NA FOR CAT D AND E EAST OF RWY 14-32. ALTERNATE MINIMUMS: STANDARD, EXCEPT CAT B 900-2, CAT C 1400-3, CAT D 1600-3, CAT E 1700-3. ALTITUDE AT STEPDOWN FIX FEPNU 5520. CHANGE JIDAL TO RW32: 3.17/50 TO READ: FEPNU TO RW32: 3.41/50. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI 3.00/TCH 50). THIS IS VOR/DME OR TACAN RWY 32, AMDT 5A. 1605261200-PERM

FDC **6/0372** OGG IAP KAHULUI, KAHULUI, HI. ILS OR LOC RWY 2, AMDT 24... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART CIRCLING ICON. NOWAK FIX MINIMUMS: CIRCLING CAT B MDA 620/HAA 566, CAT C 780/HAA 726, CAT D 1180/HAA 1126, CAT E MDA 1720/HAA 1666, VIS CAT C 2, CAT D 3. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT D 1200-3, CAT E 1800-3. THIS IS ILS OR LOC RWY 2, AMDT 24A. 1605261207-PERM

FDC **6/0373** OGG IAP KAHULUI, KAHULUI, HI. RNAV (GPS) RWY 23, AMDT 1... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.. DELETE NOTE: STRAIGHT IN MINIMUMS NA AT NIGHT. CHART CIRCLING ICON. CIRCLING CAT A MDA 500/HAA 446, CAT B MDA 620/HAA 566, CAT C 780/HAA 726, CAT D 1180/HAA 1126, VIS CAT C 2, CAT D 3. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT D 1200-3.. DELETE NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA. THIS IS RNAV (GPS) RWY 23, AMDT 1A. 1605261207-PERM

FDC **6/0374** OGG IAP KAHULUI, KAHULUI, HI. NDB RWY 2, ORIG-A... CIRCLING CAT D MDA 1180/HAA 1126. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT C 800-2 1/2, CAT D 1200-3. NA WHEN CONTROL TOWER CLOSED. DELETE NOTE: CIRCLING RWY 5 NA AT NIGHT. THIS IS NDB RWY 2, ORIG-B. 1605261207-PERM

FDC **6/0375** OGG IAP KAHULUI, KAHULUI, HI. RNAV (GPS) Y RWY 2, AMDT 1A...  
DELETE NOTE: CIRCLING TO RWY 5 NA AT NIGHT. DELETE NOTE:  
HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. CIRCLING CAT B MDA  
620/HAA 566, CAT C 780/HAA 726, CAT D 1180/HAA 1126, VIS CAT C 2 CAT D 3.  
CHART CIRCLING ICON. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT D  
1200-3. THIS IS RNAV (GPS) Y RWY 2, AMDT 1B. 1605261207-PERM

FDC **6/0376** OGG IAP KAHULUI, KAHULUI, HI. VOR RWY 20, ORIG-B... CHART  
CIRCLING ICON. CIRCLING CAT A MDA 500/HAA 446, CAT B MDA 620/HAA 566,  
CAT C 780/HAA 726, CAT D 1180/HAA 1126, VIS CAT C 2, CAT D 3. ALTERNATE  
MINIMUMS: STANDARD EXCEPT CAT D 1200-3. THIS IS VOR RWY 20, ORIG-C.  
1605261207-PERM

FDC **6/0377** OGG IAP KAHULUI, KAHULUI, HI. VOR/DME OR TACAN RWY 20,  
ORIG-A... CIRCLING CAT A MDA 500/HAA 446, CAT B MDA 620/HAA 566, CAT C  
780/HAA 726, CAT D 1180/HAA 1126, VIS CAT C 2, CAT D 3. ALTERNATE  
MINIMUMS: STANDARD EXCEPT CAT D 1200-3. DELETE NOTE: WHEN TOWER  
CLOSED, PROCEDURE NOT AUTHORIZED, EXCEPT FOR OPERATORS WITH  
APPROVED WEATHER REPORTING SERVICE. THIS IS VOR/DME OR TACAN  
RWY 20, ORIG-B. 1605261207-PERM

FDC **6/0597** OUN IAP UNIVERSITY OF OKLAHOMA WESTHEIMER, NORMAN, OK.  
ILS OR LOC RWY 18, AMDT 2 ... DELETE FROM PLANVIEW: ALTERNATE  
MISSED APPROACH HOLDING AT OUN NDB. THIS IS ILS OR LOC RWY 18,  
AMDT 2A. 1605261315-PERM

FDC **6/0626** MCN IAP MIDDLE GEORGIA RGNL, MACON, GA. VOR RWY 23,  
AMDT 4B... ICAVO FIX MINIMUMS: S-23 ALL CATS MDA 860/HAT 506. CIRCLING  
CAT A/B MDA 900/HAA 546. CHART FAS OBST: 542 TOWER 324243N/0833901W.  
THIS IS VOR RWY 23, AMDT 4C. 1605261325-PERM

FDC **6/0873** IOW IAP IOWA CITY MUNI, IOWA CITY, IA. RNAV (GPS) RWY 25,  
ORIG-A... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTER NA. CHART  
NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: NIGHT LANDING: RWY 7, 12, 30 NA. THIS IS RNAV (GPS) RWY 25,  
ORIG-B. 1605261400-PERM

FDC **6/0875** IOW IAP IOWA CITY MUNI, IOWA CITY, IA. RNAV (GPS) RWY 30,  
ORIG... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTER NA. CHART  
NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART NOTE: NIGHT LANDING: RWY 7, 12, 30 NA. THIS IS RNAV (GPS) RWY 30,  
ORIG-A. 1605261400-PERM

FDC **6/0877** IOW IAP IOWA CITY MUNI, IOWA CITY, IA. VOR-A, ORIG... CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: NIGHT LANDING: RWY 7, 12, 30 NA. THIS IS VOR-A, ORIG-A. 1605261400-PERM

FDC **6/1525** JFK IAP JOHN F KENNEDY INTL, NEW YORK, NY. VOR OR GPS RWY 13L/R, AMDT 18C... MISSED APPROACH: AT OR BEYOND MAP, CLIMBING RIGHT TURN TO 4000 ON HEADING 100 AND V-1 TO DPK VOR/DME AND HOLD. THIS IS VOR OR GPS RWY 13L/R, AMDT 18D. 1605261934-PERM

FDC **6/1930** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. RNAV (GPS) RWY 35, ORIG-A... DELETE NOTE: WHEN RWY 10 VGSI INOP, CIRCLING TO RWY 10 NA AT NIGHT. THIS IS RNAV (GPS) RWY 35, ORIG-B. 1604201526-PERM

FDC **6/1931** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. RNAV (GPS) RWY 28, AMDT 1A... DELETE NOTE: WHEN RWY 10 VGSI INOP, CIRCLING TO RWY 10 NA AT NIGHT. THIS IS RNAV (GPS) RWY 28, AMDT 1B. 1604201526-PERM

FDC **6/1932** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. RNAV (GPS) RWY 22, AMDT 1A... DELETE NOTE: WHEN RWY 10 VGSI INOP, CIRCLING TO RWY 10 NA AT NIGHT. THIS IS RNAV (GPS) RWY 22, AMDT 1B. 1604201526-PERM

FDC **6/1933** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. RNAV (GPS) RWY 17, AMDT 1A... DELETE NOTE: WHEN RWY 10 VGSI INOP, CIRCLING TO RWY 10 NA AT NIGHT. THIS IS RNAV (GPS) RWY 17, AMDT 1B. 1604201526-PERM

FDC **6/1934** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. RNAV (GPS) RWY 4, AMDT 1A... DELETE NOTE: WHEN RWY 10 VGSI INOP, CIRCLING TO RWY 10 NA AT NIGHT. THIS IS RNAV (GPS) RWY 4, AMDT 1B. 1604201526-PERM

FDC **6/1935** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. VOR/DME OR TACAN RWY 10, AMDT 6A... DELETE NOTE: WHEN RWY 10 VGSI INOP, STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. CHANGE NOTE: CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. THIS IS VOR/DME OR TACAN RWY 10, AMDT 6B. 1604201527-PERM

FDC **6/2157** OTG IAP WORTHINGTON MUNI, WORTHINGTON, MN. RNAV (GPS) RWY 36, ORIG... DELETE THRE 1574. CHART TDZE 1574. LPV VISIBILITY 1 ALL CATS. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 36, ORIG-A. 1603302210-PERM

FDC **6/2161** OTG IAP WORTHINGTON MUNI, WORTHINGTON, MN. RNAV (GPS) RWY 18, ORIG-A... LPV VISIBILITY 1 ALL CATS. LNAV/VNAV VISIBILITY 1 ALL CATS. THIS IS RNAV (GPS) RWY 18, ORIG-B. 1603302210-PERM

FDC **6/2946** 4J1 IAP BRANTLEY COUNTY, NAHUNTA, GA. RNAV (GPS) Z RWY 19, ORIG-A... LPV DA 489/HAT 404 CATS A/B, VIS CATS A/B 1 1/8. LNAV/VNAV VIS CATS A/B 1 5/8. THIS IS RNAV (GPS) Z RWY 19, ORIG-B. 1604211855-PERM

FDC **6/3045** OBI IAP WOODBINE MUNI, WOODBINE, NJ. VOR-A, AMDT 1... CHART NOTE: NIGHT LANDING: RWY 31 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS VOR-A, AMDT 1A. 1604212024-PERM

FDC **6/3049** OBI IAP WOODBINE MUNI, WOODBINE, NJ. RNAV (GPS) RWY 1, ORIG-A... CHART NOTE: NIGHT LANDING: RWY 31 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 1, ORIG-B. 1604212029-PERM

FDC **6/3263** FDY IAP FINDLAY, FINDLAY, OH. RNAV (GPS) RWY 7, ORIG... LNAV/VNAV DA 1297/HAT 488, VIS 1 3/4 ALL CATS. CIRCLING CAT A/B VIS 1. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. 34:1 IS NOT CLEAR. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI {3.00} TCH {24}). DELETE NOTE: GPS OR RNP-0.3 REQUIRED. CHANGE LOCAL ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LIMA ALLEN COUNTY ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FT, AND ALL VISIBILITIES 1/4 MILE. ALTERNATE MINIMUMS: STANDARD EXCEPT NA WHEN LOCAL WEATHER NOT AVAILABLE. THIS IS RNAV (GPS) RWY 7, ORIG-A. 1605121624-PERM

FDC **6/3272** PIR IAP PIERRE RGNL, PIERRE, SD. ILS OR LOC RWY 31, AMDT 12B... DELETE NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 2255.. THIS IS ILS OR LOC RWY 31, AMDT 12C. 1605121627-PERM

FDC **6/4698** FST IAP FORT STOCKTON-PECOS COUNTY, FORT STOCKTON, TX. VOR RWY 12, AMDT 8... CHART NOTE: CIRCLING NA TO RWYS 7-25, 11-29, 16-34. THIS IS VOR RWY 12, AMDT 8A. 1605161337-PERM

FDC **6/4700** FST IAP FORT STOCKTON-PECOS COUNTY, FORT STOCKTON, TX. VOR/DME RWY 30, ORIG... CHART NOTE: CIRCLING NA TO RWYS 7-25, 11-29, 16-34. THIS IS VOR/DME RWY 30, ORIG-A. 1605161337-PERM

FDC **6/4895** RNH IAP NEW RICHMOND RGNL, NEW RICHMOND, WI. RNAV (GPS) RWY 14, AMDT 2B... CHANGE HELICOPTER NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: CIRCLING TO RWY 4, 22 NA. DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 14 PROCEDURE NA AT NIGHT. THIS IS RNAV (GPS) RWY 14, AMDT 2C. 1605161827-PERM

FDC **6/5332** HPB IAP HOOPER BAY, HOOPER BAY, AK. VOR/DME RWY 31, ORIG-B... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. CHART NOTE: PROCEDURE NA AT NIGHT. THIS IS VOR/DME RWY 31, ORIG-C. 1601210514-PERM

FDC **6/5333** HPB IAP HOOPER BAY, HOOPER BAY, AK. RNAV (GPS) RWY 31, AMDT 1A... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 31 PROCEDURE NA AT NIGHT. THIS IS RNAV (GPS) RWY 31, AMDT 1B. 1601210514-PERM

FDC **6/5334** HPB IAP HOOPER BAY, HOOPER BAY, AK. RNAV (GPS) RWY 13, AMDT 1A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 31 NA AT NIGHT. CHART NOTE: PROCEDURE NA AT NIGHT. THIS IS RNAV (GPS) RWY 13, AMDT 1B. 1601210514-PERM

FDC **6/5410** AAF IAP APALACHICOLA RGNL-CLEVE RANDOLPH FIELD, APALACHICOLA, FL. RNAV (GPS) RWY 32, AMDT 2B... DELETE NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (-5F) OR ABOVE 43C (109F). DELETE NOTE: BARO-VNAV NA WHEN USING NORTHWEST FLORIDA BEACHES INTL ALTIMETER SETTING. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING NORTHWEST FLORIDA BEACHES INTL ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (-5F) OR ABOVE 54C (130F). CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (3.00/60). CHART VDP AT 1.20 NM TO RW32\* \*LNAV ONLY. THIS IS RNAV (GPS) RWY 32, AMDT 2C. 1604271431-PERM

FDC **6/5411** AAF IAP APALACHICOLA RGNL-CLEVE RANDOLPH FIELD, APALACHICOLA, FL. RNAV (GPS) RWY 24, AMDT 1B... DELETE NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (-5F) OR ABOVE 43C (109F). DELETE NOTE: BARO-VNAV NA WHEN USING NORTHWEST FLORIDA BEACHES INTL ALTIMETER SETTING. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING NORTHWEST FLORIDA BEACHES INTL ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (-5F) OR ABOVE 54C (130F). CHART VDP AT 1.37 NM TO RW24\* \*LNAV ONLY. THIS IS RNAV (GPS) RWY 24, AMDT 1C. 1604271431-PERM

FDC **6/5415** UUU IAP NEWPORT STATE, NEWPORT, RI. LOC RWY 22, AMDT 7C... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS LOC RWY 22, AMDT 7D. 1606031752-PERM

FDC **6/5416** UUU IAP NEWPORT STATE, NEWPORT, RI. RNAV (GPS) RWY 16, ORIG-A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS RNAV (GPS) RWY 16, ORIG-B. 1606031752-PERM

FDC **6/5417** UUU IAP NEWPORT STATE, NEWPORT, RI. VOR/DME RWY 16, AMDT 1A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR/DME RWY 16, AMDT 1B. 1606031752-PERM

FDC **6/5419** SFZ IAP NORTH CENTRAL STATE, PAWTUCKET, RI. VOR-A, AMDT 7A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR-A, AMDT 7B. 1606031758-PERM

FDC **6/5420** SFZ IAP NORTH CENTRAL STATE, PAWTUCKET, RI. VOR-B, AMDT 7A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR-B, AMDT 7B. 1606031758-PERM

FDC **6/5422** PYM IAP PLYMOUTH MUNI, PLYMOUTH, MA. ILS OR LOC/DME RWY 6, AMDT 1D... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS ILS OR LOC/DME RWY 6, AMDT 1E. 1606031802-PERM

FDC **6/5423** PYM IAP PLYMOUTH MUNI, PLYMOUTH, MA. RNAV (GPS) RWY 6, AMDT 1B... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS RNAV (GPS) RWY 6, AMDT 1C. 1606031802-PERM

FDC **6/5424** PVD IAP THEODORE FRANCIS GREEN STATE, PROVIDENCE, RI. ILS OR LOC RWY 34, AMDT 12... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS ILS OR LOC RWY 34, AMDT 12A. 1606031807-PERM

FDC **6/5429** PVD IAP THEODORE FRANCIS GREEN STATE, PROVIDENCE, RI. RNAV (GPS) RWY 5, ORIG-A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS RNAV (GPS) RWY 5, ORIG-B. 1606031807-PERM

FDC **6/5430** PVD IAP THEODORE FRANCIS GREEN STATE, PROVIDENCE, RI. VOR/DME RWY 23, AMDT 6F... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR/DME RWY 23, AMDT 6G. 1606031807-PERM

FDC **6/5431** PVD IAP THEODORE FRANCIS GREEN STATE, PROVIDENCE, RI. VOR RWY 5, AMDT 14A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR RWY 5, AMDT 14B. 1606031807-PERM

FDC **6/5432** PVD IAP THEODORE FRANCIS GREEN STATE, PROVIDENCE, RI. ILS OR LOC RWY 23, AMDT 7 ... ILS RWY 23 (SA CAT I & II), AMDT 7 ... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS ILS OR LOC RWY 23, AMDT 7A; ILS RWY 23 (SA CAT I & II), AMDT 7A. 1606031807-PERM

FDC **6/5436** PVD IAP THEODORE FRANCIS GREEN STATE, PROVIDENCE, RI. ILS OR LOC RWY 5, AMDT 19 ... ILS RWY 5 (CAT II & III), AMDT 19 ... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS ILS OR LOC RWY 5, AMDT 19A; ILS RWY 5 (CAT II & III), AMDT 19A. 1606031807-PERM

FDC **6/5442** OWD IAP NORWOOD MEMORIAL, NORWOOD, MA. LOC RWY 35, AMDT 10D... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS LOC RWY 35, AMDT 10E. 1606031813-PERM

FDC **6/5443** OQU IAP QUONSET STATE, NORTH KINGSTOWN, RI. VOR RWY 34, AMDT 2B... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR RWY 34, AMDT 2C. 1606031816-PERM

FDC **6/5444** OQU IAP QUONSET STATE, NORTH KINGSTOWN, RI. VOR-A, AMDT 5C... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR-A, AMDT 5D. 1606031816-PERM



FDC **6/5454** GON IAP GROTON-NEW LONDON, GROTON (NEW LONDON), CT. RNAV (GPS) RWY 23, ORIG-C... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS RNAV (GPS) RWY 23, ORIG-D. 1606031822-PERM

FDC **6/5455** GON IAP GROTON-NEW LONDON, GROTON (NEW LONDON), CT. VOR RWY 23, AMDT 10B... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS VOR RWY 23, AMDT 10C. 1606031822-PERM

FDC **6/5460** FMH IAP U.S. DOD CAPE COD COAST GUARD AIR STATION, FALMOUTH, MA. ILS OR LOC RWY 32, AMDT 1A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS ILS OR LOC RWY 32, AMDT 1B. 1606031825-PERM

FDC **6/5461** EWB IAP NEW BEDFORD RGNL, NEW BEDFORD, MA. ILS OR LOC RWY 5, AMDT 26... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS ILS OR LOC RWY 5, AMDT 26A. 1606031828-PERM

FDC **6/5462** EWB IAP NEW BEDFORD RGNL, NEW BEDFORD, MA. RNAV (GPS) RWY 5, AMDT 1... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS RNAV (GPS) RWY 5, AMDT 1A. 1606031828-PERM

FDC **6/5466** 3B0 IAP SOUTHBRIDGE MUNI, SOUTHBRIDGE, MA. RNAV (GPS) RWY 2, ORIG-A... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS RNAV (GPS) RWY 2, ORIG-B. 1606031830-PERM

FDC **6/5488** TAN IAP TAUNTON MUNI - KING FIELD, TAUNTON, MA. NDB RWY 30, AMDT 5B... CHANGE: ALL REFERENCES OF PROVIDENCE (PVD) VORTAC TO PROVIDENCE (PVD) VOR/DME. THIS IS NDB RWY 30, AMDT 5C. 1606031857-PERM

FDC **6/5896** HUM IAP HOUMA-TERREBONNE, HOUMA, LA. COPTER VOR/DME RWY 12, AMDT 4... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS COPTER VOR/DME RWY 12, AMDT 4A. 1606061303-PERM

FDC **6/5898** HUM IAP HOUMA-TERREBONNE, HOUMA, LA. RNAV (GPS) RWY 18, ORIG... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) RWY 18, ORIG-A. 1606061303-PERM

FDC **6/5899** HUM IAP HOUMA-TERREBONNE, HOUMA, LA. RNAV (GPS) RWY 36, ORIG... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) RWY 36, ORIG-A. 1606061303-PERM

FDC **6/5900** HUM IAP HOUMA-TERREBONNE, HOUMA, LA. VOR/DME RWY 30, AMDT 12... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS VOR/DME RWY 30, AMDT 12A. 1606061303-PERM

FDC **6/5903** L83 IAP THIBODAUX MUNI, THIBODAUX, LA. VOR OR GPS-A, AMDT 1A... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS VOR OR GPS-A, AMDT 1B. 1606061315-PERM

FDC **6/5915** MSY IAP LOUIS ARMSTRONG NEW ORLEANS INTL, NEW ORLEANS, LA. RNAV (GPS) Y RWY 11, AMDT 2... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) Y RWY 11, AMDT 2A. 1606061318-PERM

FDC **6/5916** MSY IAP LOUIS ARMSTRONG NEW ORLEANS INTL, NEW ORLEANS, LA. RNAV (RNP) Z RWY 11, AMDT 1... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (RNP) Z RWY 11, AMDT 1A. 1606061318-PERM

FDC **6/5917** MSY IAP LOUIS ARMSTRONG NEW ORLEANS INTL, NEW ORLEANS, LA. VOR/DME RWY 11, AMDT 1... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS VOR/DME RWY 11, AMDT 1A. 1606061318-PERM

FDC **6/5918** MSY IAP LOUIS ARMSTRONG NEW ORLEANS INTL, NEW ORLEANS, LA. ILS OR LOC RWY 11 AMDT 3 ... ILS RWY 11 (SA CAT I) AMDT 3 ... ILS RWY 11 (CAT II AND III) AMDT 3 ... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME THIS IS ILS OR LOC RWY 11, AMDT 3A; ILS RWY 11 (SA CAT I), AMDT 3A; ILS RWY 11 (CAT II AND III), AMDT 3A. 1606061318-PERM

FDC **6/5919** IGM IAP KINGMAN, KINGMAN, AZ. VOR/DME RWY 21, AMDT 7B... CHANGE: ALL REFERENCES OF PEACH SPRINGS (PGS) VORTAC TO PEACH SPRINGS (PGS) VOR/DME. THIS IS VOR/DME RWY 21, AMDT 7C. 1606061320-PERM

FDC **6/5938** PTN IAP HARRY P WILLIAMS MEMORIAL, PATTERSON, LA. RNAV (GPS) RWY 6, ORIG-A... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) RWY 6, ORIG-B. 1606061322-PERM

FDC **6/5940** PTN IAP HARRY P WILLIAMS MEMORIAL, PATTERSON, LA. RNAV (GPS) RWY 24, AMDT 1B... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) RWY 24, AMDT 1C. 1606061322-PERM

FDC **6/5958** PRB IAP PASO ROBLES MUNI, PASO ROBLES, CA. RNAV (GPS) RWY 31, ORIG... CHANGE: ALL REFERENCES OF AVENAL (AVE) VORTAC TO AVENAL (AVE) VOR/DME. THIS IS RNAV (GPS) RWY 31, ORIG-A. 1606061325-PERM

FDC **6/5959** PTN IAP HARRY P WILLIAMS MEMORIAL, PATTERSON, LA. ILS OR LOC/DME RWY 24, AMDT 2D... CHANGE: ALL REFERENCES OF TBD VORTAC TO TBD VOR/DME. THIS IS ILS OR LOC/DME RWY 24, AMDT 2E. 1606061325-PERM

FDC **6/5960** OLZ IAP OELWEIN MUNI, OELWEIN, IA. VOR OR GPS-A, AMDT 3A... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. THIS IS VOR OR GPS-A, AMDT 3B. 1606061326-PERM

FDC **6/5962** C25 IAP WAVERLY MUNI, WAVERLY, IA. VOR-A, AMDT 3A... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. DELETE PLANVIEW NOTE: DME OR RADAR REQUIRED. CHART NOTE: DME OR RADAR REQUIRED. THIS IS VOR-A, AMDT 3B. 1606061327-PERM

FDC **6/5963** ALO IAP WATERLOO RGNL, WATERLOO, IA. ILS OR LOC RWY 12, AMDT 9... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. THIS IS ILS OR LOC RWY 12, AMDT 9A. 1606061329-PERM

FDC **6/5964** ALO IAP WATERLOO RGNL, WATERLOO, IA. LOC BC RWY 30, AMDT 11A... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. CHANGE MISSED APPROACH INSTRUCTIONS TO READ: CLIMB TO 3500 ON ALO VOR/DME R-302 TO SEATS ALO 13.32 DME AND HOLD. THIS IS LOC BC RWY 30, AMDT 11B. 1606061329-PERM

FDC **6/5965** ALO IAP WATERLOO RGNL, WATERLOO, IA. VOR RWY 6, AMDT 3... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. THIS IS VOR RWY 6, AMDT 3A. 1606061329-PERM

FDC **6/5966** ALO IAP WATERLOO RGNL, WATERLOO, IA. VOR RWY 12, AMDT 10... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. THIS IS VOR RWY 12, AMDT 10A. 1606061329-PERM

FDC **6/5967** ALO IAP WATERLOO RGNL, WATERLOO, IA. VOR RWY 18, AMDT 8A... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. THIS IS VOR RWY 18, AMDT 8B. 1606061329-PERM

FDC **6/5968** ALO IAP WATERLOO RGNL, WATERLOO, IA. VOR RWY 24, AMDT 16A... CHANGE: ALL REFERENCES OF WATERLOO (ALO) VORTAC TO WATERLOO (ALO) VOR/DME. THIS IS VOR RWY 24, AMDT 16B. 1606061329-PERM

FDC **6/5972** GAO IAP SOUTH LAFOURCHE LEONARD MILLER JR, GALLIANO, LA. ILS OR LOC/DME RWY 36, AMDT 1... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS ILS OR LOC/DME RWY 36, AMDT 1A. 1606061333-PERM

FDC **6/5973** GAO IAP SOUTH LAFOURCHE LEONARD MILLER JR, GALLIANO, LA. RNAV (GPS) RWY 18, AMDT 2... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) RWY 18, AMDT 2A. 1606061333-PERM

FDC **6/5974** GAO IAP SOUTH LAFOURCHE LEONARD MILLER JR, GALLIANO, LA. RNAV (GPS) RWY 36, AMDT 1... CHANGE: ALL REFERENCES OF TIBBY (TBD) VORTAC TO TIBBY (TBD) VOR/DME. THIS IS RNAV (GPS) RWY 36, AMDT 1A. 1606061333-PERM

FDC **6/6317** WAL IAP WALLOPS FLIGHT FACILITY, WALLOPS ISLAND, VA. VOR OR TACAN RWY 17, AMDT 7A... DELETE NOTE: WHEN RWY 10 VGSI INOP, CIRCLING TO RWY 10 NA AT NIGHT. THIS IS VOR OR TACAN RWY 17, AMDT 7B. 1606062004-PERM

FDC **6/6870** K82 IAP SMITH CENTER MUNI, SMITH CENTER, KS. RNAV (GPS) RWY 32, ORIG... CHART TDZE 1800. DELETE THRE 1800. CHART NOTE: NIGHT LANDING: RWY 35 NA. CIRCLING CAT A MDA 2480 / HAA 680. THIS IS RNAV (GPS) RWY 32, ORIG-A. 1605191638-PERM

FDC **6/6880** K82 IAP SMITH CENTER MUNI, SMITH CENTER, KS. RNAV (GPS) RWY 14, ORIG... CHART TDZE 1798. DELETE THRE 1786. LPV DA 1998 CATS A/B. LNAV/VNAV DA 2076 CATS A/B. LNAV CATS A/B HAT 522. CHART NOTE: NIGHT LANDING: RWY 35 NA. CIRCLING CAT A MDA 2480 / HAA 680. THIS IS RNAV (GPS) RWY 14, ORIG-A. 1605191638-PERM

FDC **6/6953** TLH IAP TALLAHASSEE INTL, TALLAHASSEE, FL. RNAV (GPS) RWY 27, AMDT 2... CHANGE WHEN LOCAL ALTIMETER SETTING NOT RECEIVED  
NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE QUINCY ALTIMETER SETTING AND INCREASE ALL DA 57 FEET AND ALL MDA 60 FEET, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000 AND LNAV CATS C AND D TO RVR 5000. CHANGE FOR INOP ALSF WHEN USING QUINCY ALTIMETER SETTING NOTE TO READ: FOR INOPERATIVE ALSF WHEN USING QUINCY ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500, LNAV CATS A AND B TO RVR 5500, LNAV CATS C AND D TO 1 3/8 SM, CIRCLING CAT C TO 1 3/4 SM AND CAT D TO 2 1/2 SM. THIS IS RNAV (GPS) RWY 27, AMDT 2A. 1605191719-PERM

FDC **6/7099** BKW IAP RALEIGH COUNTY MEMORIAL, BECKLEY, WV. ILS OR LOC RWY 19, AMDT 6A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 28 NA AT NIGHT. THIS IS ILS OR LOC RWY 19, AMDT 6B. 1604291931-PERM

FDC **6/7100** BKW IAP RALEIGH COUNTY MEMORIAL, BECKLEY, WV. RNAV (GPS) RWY 19, AMDT 1A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 28 NA AT NIGHT. THIS IS RNAV (GPS) RWY 19, AMDT 1B. 1604291931-PERM

FDC **6/7101** BKW IAP RALEIGH COUNTY MEMORIAL, BECKLEY, WV. RNAV (GPS) RWY 10, AMDT 1A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 28 NA AT NIGHT. THIS IS RNAV (GPS) RWY 10, AMDT 1B. 1604291931-PERM

FDC **6/7102** BKW IAP RALEIGH COUNTY MEMORIAL, BECKLEY, WV. RNAV (GPS) RWY 1, AMDT 1A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 28 NA AT NIGHT. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 1, AMDT 1B. 1604291935-PERM

FDC **6/7104** BKW IAP RALEIGH COUNTY MEMORIAL, BECKLEY, WV. RNAV (GPS) RWY 28, AMDT 1A... DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 28 PROCEDURE NA AT NIGHT. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 28, AMDT 1B. 1604291935-PERM

FDC **6/7937** DUH IAP TOLEDO SUBURBAN, LAMBERTVILLE, MI. VOR OR GPS-A, AMDT 7... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CIRCLING MDA 1320/HAA 651 ALL CATS, VIS CAT C 1 3/4. CHART FAS OBST: 906 TOWER 413943N/0833909W. CHANGE ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO EXPRESS ALTIMETER SETTING. THIS IS VOR OR GPS-A, AMDT 7A. 1604111925-PERM

FDC **6/7945** TRL IAP TERRELL MUNI, TERRELL, TX. RNAV (GPS) RWY 17, ORIG... LNAV/VNAV DA 1013/HAT 539 ALL CATS, VIS 1 7/8 ALL CATS. LNAV MDA 960/HAT 486 ALL CATS, VIS CAT C 1 3/8. CIRCLING CATS B/C MDA 1020/HAA 546, VIS CATS A/B 1, CAT C 1 1/2. CHART VDP AT 1.42 MILES TO RW17\* \*LNAV ONLY. CHANGE BARO-VNAV NA WHEN USING NOTE TO READ: BARO-VNAV AND VDP NA WHEN USING DALLAS LOVE FIELD ALTIMETER SETTING. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: WHEN VGSI INOPERATIVE, STRAIGHT-IN/CIRCLING RWY 17 PROCEDURE NA AT NIGHT. CHANGE UNCOMPENSATED BARO-VNAV SYSTEMS NOTE TO READ: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -7C (20F) OR ABOVE 54C (130F). CHANGE LOCAL ALTIMETER SETTING NOT RECEIVED NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DALLAS LOVE FIELD ALTIMETER SETTING AND INCREASE ALL DA 73 FEET AND ALL MDA 80 FT; INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 2 1/2 MILE, LNAV CAT C TO 1 5/8 MILE AND CIRCLING CAT C TO 1 3/4 MILE. CHART FAS OBST: 659 TOWER 324414N/0961628W. THIS IS RNAV (GPS) RWY 17, ORIG-A. 1604111942-PERM

FDC **6/8187** EWR IAP NEWARK LIBERTY INTL, NEWARK, NJ. RNAV (GPS) RWY 11, ORIG-D... CHART TDZE 17. CHART APT ELEV 17. LNAV HAT 603 ALL CATS, VIS CATS A/B RVR 5500, VIS CAT D 1 3/4. CATS A/B CIRCLING HAA 703, CAT C CIRCLING MDA 820/HAA 803, CAT D CIRCLING HAA 883. CIRCLING CAT C VIS 2 1/4. DELETE NOTE: WHEN RWY 29 VGSI INOP, CIRCLING RWY 29 NA AT NIGHT. CHART NOTE: CIRCLING RWY 29 NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART VDP AT 1.67 NM TO RW11. THIS IS RNAV (GPS) RWY 11, ORIG-E. 1605231414-PERM

FDC **6/8188** EWR IAP NEWARK LIBERTY INTL, NEWARK, NJ. RNAV (GPS) RWY 22R, AMDT 1C... CHART APT ELEV 17. CATS A/B CIRCLING HAA 703, CAT C CIRCLING MDA 820/HAA 803, CAT D CIRCLING HAA 883. CIRCLING CAT C VIS 2 1/4. DELETE NOTE: WHEN RWY 29 VGSI INOP, CIRCLING RWY 29 NA AT NIGHT. CHART NOTE: CIRCLING RWY 29 NA AT NIGHT. THIS IS RNAV (GPS) RWY 22R, AMDT 1D. 1605231414-PERM

FDC **6/8189** EWR IAP NEWARK LIBERTY INTL, NEWARK, NJ. COPTER ILS/DME RWY 22L, ORIG-C... CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE 3.00/TCH 60). CHANGE ALTERNATE MINIMUMS FROM NA TO STANDARD. CHART VDP AT 1.67 DME. DISTANCE VDP TO THLD 1.53 MILES. THIS IS COPTER ILS/DME RWY 22L, ORIG-D. 1605231414-PERM

FDC **6/8795** BTV IAP BURLINGTON INTL, BURLINGTON, VT. ILS OR LOC/DME RWY 15, AMDT 24... CHART NOTE: DME REQUIRED. THIS IS ILS OR LOC/DME RWY 15, AMDT 24A. 1605241558-PERM

FDC **6/8823** BVY IAP BEVERLY MUNI, BEVERLY, MA. VOR RWY 16, AMDT 5B...  
CHANGE AIRPORT NAME TO BEVERLY RGNL. CHART NOTE: WHEN LOCAL  
ALTIMETER SETTING NOT RECEIVED, USE LAWRENCE ALTIMETER SETTING  
AND INCREASE ALL MDA 40 FT. THIS IS VOR RWY 16, AMDT 5C. 1605041546-  
PERM

FDC **6/8843** BVY IAP BEVERLY MUNI, BEVERLY, MA. RNAV (GPS) RWY 27,  
ORIG--C... CHANGE AIRPORT NAME TO BEVERLY RGNL.. THIS IS RNAV (GPS)  
RWY 27, ORIG-D. 1605041549-PERM

FDC **6/8850** BVY IAP BEVERLY MUNI, BEVERLY, MA. LOC RWY 16, AMDT 7B...  
CHANGE: AIRPORT NAME TO BEVERLY RGNL. THIS IS LOC RWY 16, AMDT 7C.  
1605041601-PERM

FDC **6/8851** BVY IAP BEVERLY MUNI, BEVERLY, MA. RNAV (GPS) RWY 16,  
AMDT 1C... CHANGE: AIRPORT NAME TO BEVERLY RGNL. CHART NOTE:  
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LAWRENCE  
ALTIMETER SETTING AND INCREASE ALL DA 34 FT AND ALL MDA 40 FT.  
CHART NOTE: BARO-VNAV NA WHEN USING LAWRENCE ALTIMETER SETTING.  
THIS IS RNAV (GPS) RWY 16, AMDT 1D. 1605041602-PERM

FDC **6/8853** BVY IAP BEVERLY MUNI, BEVERLY, MA. RNAV (GPS) RWY 34,  
ORIG-B... CHANGE: AIRPORT NAME TO BEVERLY RGNL. THIS IS RNAV (GPS)  
RWY 34, ORIG C. 1605041604-PERM

FDC **6/9457** LRO IAP MT PLEASANT RGNL-FAISON FIELD, MOUNT PLEASANT,  
SC. RNAV (GPS) RWY 35, ORIG-B... DELETE NOTE: NIGHT LANDING: RWY 35  
NA. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA.  
THIS IS RNAV (GPS) RWY 35, ORIG-C. 1605051137-PERM

FDC **6/9459** LRO IAP MT PLEASANT RGNL-FAISON FIELD, MOUNT PLEASANT,  
SC. VOR/DME-A, AMDT 1A... DELETE NOTE: NIGHT LANDING: RWY 35 NA.  
DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. THIS IS  
VOR/DME-A, AMDT 1B. 1605051140-PERM

FDC **6/9460** LRO IAP MT PLEASANT RGNL-FAISON FIELD, MOUNT PLEASANT,  
SC. RNAV (GPS) RWY 17, ORIG-B... DELETE NOTE: NIGHT LANDING: RWY 35  
NA. THIS IS RNAV (GPS) RWY 17, ORIG-C. 1605051144-PERM