

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 17-01

November 18, 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.**

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31107](#); Amdt. No. [3723](#)]

**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.

Availability

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center at 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 [NOVEMBER 18, 2016](#)



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 5 January 2017

Ambler, AK, Ambler, NDB RWY 36, Amdt 2B, CANCELED
 Ambler, AK, Ambler, RNAV (GPS) RWY 1, Amdt 1
 Ambler, AK, Ambler, Takeoff Minimums and Obstacle DP, Amdt 1
 Deering, AK, Deering, RNAV (GPS) RWY 3, Amdt 1
 Deering, AK, Deering, RNAV (GPS) RWY 12, Amdt 1
 Deering, AK, Deering, RNAV (GPS) RWY 21, Amdt 1
 Deering, AK, Deering, RNAV (GPS) RWY 30, Amdt 1
 Deering, AK, Deering, Takeoff Minimums and Obstacle DP, Amdt 2
 Fort Yukon, AK, Fort Yukon, RNAV (GPS) RWY 4, Amdt 2
 Fort Yukon, AK, Fort Yukon, RNAV (GPS) RWY 22, Amdt 2
 Nulato, AK, Nulato, RNAV (GPS) RWY 3, Amdt 1
 Nulato, AK, Nulato, RNAV (GPS) RWY 21, Amdt 1
 Nulato, AK, Nulato, Takeoff Minimums and Obstacle DP, Amdt 1
 Fayetteville/Springdale/Rogers, AR, Northwest Arkansas Rgnl, Takeoff Minimums and Obstacle DP, Amdt 4
 Denver, CO, Denver Intl, ILS OR LOC RWY 7, Amdt 3B
 Tampa, FL, Tampa Intl, ILS OR LOC RWY 1L, ILS RWY 1L (SA CAT I), ILS RWY 1L (CAT II), ILS RWY 1L (CAT III), Amdt 18
 Tampa, FL, Tampa Intl, ILS OR LOC RWY 19R, Amdt 6
 West Palm Beach, FL, Palm Beach Intl, ILS OR LOC RWY 10L, Amdt 27
 Alma, GA, Bacon County, RNAV (GPS) RWY 15, Amdt 2A
 Alma, GA, Bacon County, RNAV (GPS) RWY 33, Amdt 1A
 Dawson, GA, Dawson Muni, RNAV (GPS) RWY 31, Orig-C
 Dawson, GA, Dawson Muni, VOR/DME RWY 31, Orig-C
 Lafayette, GA, Barwick Lafayette, RNAV (GPS) RWY 2, Amdt 2
 Lafayette, GA, Barwick Lafayette, RNAV (GPS) RWY 20, Amdt 2
 Lewiston, ID, Lewiston-Nez Pearce County, Takeoff Minimums and Obstacle DP, Amdt 4
 Paris, IL, Edgar County, RNAV (GPS) RWY 27, Amdt 1A
 Greencastle, IN, Putnam County Rgnl, RNAV (GPS) RWY 18, Amdt 2
 Greencastle, IN, Putnam County Rgnl, RNAV (GPS) RWY 36, Amdt 2
 Greencastle, IN, Putnam County Rgnl, Takeoff Minimums and Obstacle DP, Amdt 1
 Greencastle, IN, Putnam County Rgnl, VOR-A, Amdt 7
 Indianapolis, IN, Indianapolis Rgnl, ILS OR LOC RWY 25, Amdt 2E
 Indianapolis, IN, Indianapolis Rgnl, RNAV (GPS) RWY 25, Orig-B
 Fort Leavenworth, KS, Sherman AAF, NDB RWY 34, Amdt 4A, CANCELED
 Topeka, KS, Topeka Rgnl, TACAN RWY 13, Amdt 4A
 Topeka, KS, Topeka Rgnl, TACAN RWY 31, Amdt 4A
 Reserve, LA, Port of South Louisiana Executive Rgnl, RNAV (GPS) RWY 17, Amdt 1A
 Reserve, LA, Port of South Louisiana Executive Rgnl, RNAV (GPS) RWY 35, Amdt 1A
 Reserve, LA, Port of South Louisiana Executive Rgnl, Takeoff Minimums and Obstacle DP, Amdt 1A
 Reserve, LA, Port of South Louisiana Executive Rgnl, VOR RWY 35, Amdt 1A

Stevensville, MD, Bay Bridge, RNAV (GPS) RWY 11, Amdt 1
 Stevensville, MD, Bay Bridge, RNAV (GPS) RWY 29, Amdt 1
 Bois Blanc Island, MI, Bois Blanc Island, RNAV (GPS) RWY 10, Amdt 1
 Hancock, MI, Houghton County Memorial, ILS OR LOC RWY 31, Amdt 15
 Hancock, MI, Houghton County Memorial, RNAV (GPS) RWY 7, Amdt 1B
 Albert Lea, MN, Albert Lea Muni, RNAV (GPS) RWY 35, Amdt 1B
 Austin, MN, Austin Muni, ILS OR LOC RWY 35, Amdt 1B
 Silver City, NM, Grant County, SILVER CITY TWO, Graphic DP
 Zanesville, OH, Zanesville Muni, RNAV (GPS) RWY 4, Orig
 Zanesville, OH, Zanesville Muni, RNAV (GPS) RWY 22, Orig
 Zanesville, OH, Zanesville Muni, VOR RWY 4, Amdt 7
 Zanesville, OH, Zanesville Muni, VOR RWY 22, Amdt 4
 Oneida, TN, Scott Muni, VOR/DME-A, Amdt 5D
 Abilene, TX, Abilene Rgnl, ILS OR LOC RWY 35R, Amdt 7A
 Abilene, TX, Abilene Rgnl, LOC RWY 17R, Orig-A
 Abilene, TX, Abilene Rgnl, RADAR-1, Amdt 10
 Abilene, TX, Abilene Rgnl, RNAV (GPS) RWY 17L, Amdt 1A
 Abilene, TX, Abilene Rgnl, RNAV (GPS) RWY 22, Orig-A
 Abilene, TX, Abilene Rgnl, RNAV (GPS) RWY 35R, Amdt 1A
 Abilene, TX, Abilene Rgnl, Takeoff Minimums and Obstacle DP, Amdt 3
 Lago Vista, TX, Lago Vista TX - Rusty Allen, RNAV (GPS) RWY 15, Amdt 1
 Lubbock, TX, Lubbock Preston Smith Intl, ILS OR LOC RWY 17R, Amdt 18
 Lubbock, TX, Lubbock Preston Smith Intl, ILS OR LOC RWY 26, Amdt 4B
 Lubbock, TX, Lubbock Preston Smith Intl, LOC BC RWY 35L, Amdt 19
 Lubbock, TX, Lubbock Preston Smith Intl, RNAV (GPS) RWY 8, Amdt 2B
 Lubbock, TX, Lubbock Preston Smith Intl, RNAV (GPS) RWY 26, Amdt 2B
 Lubbock, TX, Lubbock Preston Smith Intl, RNAV (GPS) Y RWY 17R, Amdt 2A
 Lubbock, TX, Lubbock Preston Smith Intl, RNAV (GPS) Y RWY 35L, Amdt 2A
 Lubbock, TX, Lubbock Preston Smith Intl, RNAV (RNP) Z RWY 17R, Orig-B
 Lubbock, TX, Lubbock Preston Smith Intl, RNAV (RNP) Z RWY 35L, Orig-B
 Slaton, TX, Slaton Muni, RNAV (GPS) RWY 18, Orig
 Slaton, TX, Slaton Muni, RNAV (GPS) RWY 36, Orig
 Slaton, TX, Slaton Muni, Takeoff Minimums and Obstacle Orig
 Tyler, TX, Tyler Pounds Rgnl, VOR/DME RWY 22, AMDT 4A, CANCELED
 St George, UT, St George Rgnl, LDA RWY 19, Orig-D
 St George, UT, St George Rgnl, RNAV (GPS) RWY 19, Orig-D
 Suffolk, VA, Suffolk Executive, RNAV (GPS) RWY 22, Amdt 2
 Wallops Island, VA, Wallops Flight Facility, RNAV (GPS) RWY 10, Amdt 2
 Clarksburg, WV, North Central West Virginia, RNAV (GPS) RWY 3, Amdt 2
 Rock Springs, WY, Rock Springs-Sweetwater County, ILS OR LOC RWY 27, Amdt 2
 Rock Springs, WY, Rock Springs-Sweetwater County, RNAV (GPS) RWY 27, Amdt 1A

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

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 5 JANUARY 2017

| | | | | |
|-------------------------------------|--|------------------------------------|--|------------------------|
| CITY AND STATE AMBLER, AK | ELEVATION: 334 TDZE: 313 AIRPORT NAME: AMBLER | FACILITY IDENTIFIER: AMF | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 36, AMDT 2B, 04/03/2014 | SUP |
| | | | | AMDT 4 |
| | | | | DATE 10/30/2003 |

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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|----------------|-------------------|---------------------|----------|
| LOUPS (IAF) | RONYE (NOPT) (FB) | 279.76 / 10.00 | 3600 |
| FELOS (IAF) | RONYE (NOPT) (FB) | 099.04 / 10.00 | 3600 |
| RONYE (IF/IAF) | JAKOW (FB) | 009.40 / 6.16 | 1900 |
| JAKOW (FAF) | RW01 (MAP) (FO) | 009.49 / 5.06 | |
| RW01 (MAP) | 1000 MSL | 009.49 | 1000 |
| 1000 MSL | RONYE (FO) | | 3600 |

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3600 DIRECT RONYE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3600.

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 359 TREE 670514N/1575400W
470 AAO 670154N/1580000W
DISTANCE TO THLD FROM 250 HAT: 0.66 NM.
CHART VDP AT 2.27 NM TO RW01*
*LNAV ONLY.
WAAS CHANNEL # 40439
REFERENCE PATH ID: W01A
CHART CIRCLING ICON.
LTP HAE: 80.3 M

MAG VAR: 13E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD S RONYE, RT, 009.40 INBOUND, 3600 FT. IN LIEU OF PT (IAF)
3. FAC: 009.49 FAF: JAKOW DIST FAF TO MAP: 5.06 THLD: 5.06
4. MIN. ALT: RONYE 3400, JAKOW 1900
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1900 GS ALT AT: JAKOW 1900 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 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 * | 498 | 1 | 250 | 498 | 1 | 250 | 498 | 1 | 250 | 498 | 1 | 250 | | | |
| LPV DA | 666 | 1 3/8 | 418 | 666 | 1 3/8 | 418 | 666 | 1 3/8 | 418 | 666 | 1 3/8 | 418 | | | |
| LNAV/VNAV DA | 791 | 1 7/8 | 543 | 791 | 1 7/8 | 543 | 791 | 1 7/8 | 543 | 791 | 1 7/8 | 543 | | | |
| LNAV MDA | 1000 | 1 | 752 | 1000 | 1 1/4 | 752 | 1000 | 1 7/8 | 752 | 1000 | 1 7/8 | 752 | | | |
| CIRCLING | 1000 | 1 | 707 | 1000 | 1 1/4 | 707 | 1000 | 2 | 707 | 1000 | 2 1/4 | 707 | | | |

NOTES:
 CHART NOTE: *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 210 FEET PER NM TO 2300. @ CAT D 800-2 1/4
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 20C (-4F) OR ABOVE 42C (108F).
 CHART NOTE: CIRCLING NA W OF RWY 1-19.
 CHART NOTE: DME/DME RNP-0.3 NA.
 (CONTINUED ON PAGE 2)

| | | | | |
|-------------------------------------|--|-------------------------------------|--|--|
| CITY AND STATE AMBLER, AK | ELEVATION: 293 TDZE: 248 AIRPORT NAME: AMBLER | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 1 AMDT: ORIG DATED 10/30/2003 |
|-------------------------------------|--|-------------------------------------|--|--|

QUALITY
4
7/26/2017

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

| TAA | FROM | TO | ALT |
|------------|---|---------------------------------------|--------------|
| 1. | 279/30 CW 099/30 (NOPT) 279/5 CW 099/5 | 279/5 CW 099/5 RONYE (IF/IAF) (FB) | 4400 3600 |
| 2. | 099/30 CW 189/30 (NOPT) 099/11 CW 189/11 | 099/11 CW 189/11 FELOS (IAF) (FB) | 5800 4400 |
| 3. | 189/30 CW 279/30 (NOPT) 189/11 CW 279/11 | 189/11 CW 279/11 LOUPS (IAF) (FB) | 6200 3600 |

| | | | | | |
|-------------------------------------|--|-----------|-------------------------------------|---|------------------------------|
| CITY AND STATE AMBLER, AK | ELEVATION: 293 AIRPORT NAME: AMBLER | TDZE: 248 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) Z RWY |
| | | | | | AMDT: ORIG |
| | | | | | DATED: 10/30/2003 |

QUALITY
4
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 | PAFM |
| RUNWAY | RW01 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W01A |
| LTP/FTP LATITUDE | 670559.8400N |
| LTP/FTP LONGITUDE | 1575138.4800W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00803 |
| FPAP LATITUDE | 670721.8115N |
| FPAP LONGITUDE | 1575010.9215W |
| 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 | 1528 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER CB36B68E

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +00757 |
| FPAP ORTHOMETRIC HEIGHT | +00757 |

| | | | | |
|-------------------------------------|--------------------------------|-------------------------------------|---|------------------------------|
| CITY AND STATE AMBLER, AK | ELEVATION: 293 TDZE: 248 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) Z RWY |
| | AIRPORT NAME: AMBLER | | | AMDT: ORIG |
| | | | | DATED: 10/30/2003 |

QUALITY
4
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 - PAFM

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| FELOS | 010 | FELOS | IF | FB | | | | | | | | | | E A |
| FELOS | 020 | RONYE | TF | FB | 1.0 | 099.0 | | | | | | AA 03600 | | EE B |
| LOUPS | 010 | LOUPS | IF | FB | | | | | | | | | | E A |
| LOUPS | 020 | RONYE | TF | FB | 2.0 | 279.8 | | | | | | AA 03600 | | EE B |
| RONYE | 010 | RONYE | HF | FO | | 009.4 | | | R | | | AA 03600 | | EE A |
| | 010 | RONYE | IF | FB | | | | | | | | AA 03600 | | E I |
| | 020 | JAKOW | TF | FB | 1.0 | 009.4 | | | | | | AA 01900 | | E F |
| | 030 | RW01 | TF | FO | 0.3 | 009.5 | | 3.00 | | | | AT 00288 | | GY M |
| | 040 | | CA | FB | | 009.5 | | | | | | AA 01000 | | M |
| | 050 | RONYE | DF | FO | | | | | R | | | AA 03600 | | EY |
| | 060 | RONYE | HM | FO | | 009.4 | | | R | | | AA 03600 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| FELOS | N665926.14 | W1582607.36 |
| JAKOW | N670120.39 | W1575635.64 |
| LOUPS | N665150.51 | W1573909.44 |
| RONYE | N665540.06 | W1580234.75 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW01 | N670559.84 | W1575138.48 | 00248 | 40 |

| | | | | |
|-------------------------------------|--|-------------------------------------|---|---|
| CITY AND STATE AMBLER, AK | ELEVATION: 293 TDZE: 248 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) Z RWY 4 36 |
| | AIRPORT NAME: AMBLER | | AMDT: ORIG | |
| | | | DATED: 10/30/2003 | |

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|----------------|-----------------------|----------------|
| AMBLER, AK | AMBLER | 5 JANUARY 2017 | 1 |

TAKEOFF MINIMUMS:

RWY 10, 28: NA-OBSTACLES.

RWY 1, STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 2400 OR 3400-3 FOR VCOA.

RWY 19, STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 1: CLIMBING RIGHT TURN, THENCE...

RWY 19: CLIMBING LEFT TURN, THENCE...

...CLIMB SOUTHEAST BOUND ON 156 BEARING FROM AMF NDB TO 2600, THEN CLIMB ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 1: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS AMBLER AIRPORT AT OR ABOVE 3500 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1: TREE 1772 FT FROM DER, 936 FT LEFT OF CENTERLINE, 51 FT AGL/315 FT MSL.

CONTROLLING OBSTACLES:

RWY 1: 1799 FT MSL AAO 670612.96N/1573232.94W.

RWY 1 (VCOA): 1199 MSL AAO 671002.58N/1575350.93W, 3599 MSL AAO 671249.22N/1575608.67W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 1, 19: 3599 FT MSL AAO 671249.22N/1575608.67W

Digitally signed by

BEV L BORDY

Oct 31, 2016 **TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

TITLE 14 CFR PART 97.37

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| | | | |
|--------------------|----------------|-----------------------|----------------|
| CITY, STATE | AIRPORT | EFFECTIVE DATE | AMDT NO |
| AMBLER, AK | AMBLER | 5 JANUARY 2017 | 1 |

REMARKS:

| | | | |
|-----------------------------|----------------------------|-----------------------|--------------|
| FLIGHT INSPECTED BY: | <i>Digitally signed by</i> | OFFICE SYMBOL: | DATE: |
| JAMES M. MEEK | BEV L BORDY | FICO | 10/26/2016 |
| | Oct 31, 2016 | | |

| | | | |
|----------------------|----------------------------|-----------------------|--------------|
| DEVELOPED BY: | <i>Digitally signed by</i> | OFFICE SYMBOL: | DATE: |
| RONALD O. SALPINO | RONALD SALPINO | AJV-5433 | 05/31/2016 |
| | Aug 13, 2016 | | |

| | | | |
|---------------------|----------------------------|-----------------------|--------------|
| APPROVED BY: | <i>Digitally signed by</i> | OFFICE SYMBOL: | DATE: |
| LONNIE EVERHART | BEV L BORDY | AJV-5430 | |
| | Oct 31, 2016 | | |

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:
ZAN, AMGR.

CHANGES - REASONS:

1. RUNWAYS RENUMBERED FROM 9/18/27/36 TO 10/19/28/01 - AIRPORT MAGVAR CHANGED FROM 21E TO 13E.
2. ADDED CLIMB GRADIENT AND VCOA TO RWY 1 PROCEDURE - AAO ADDED TO THE PROCEDURE WHICH CAUSES PENETRATION TO THE DEPARTURE OIS (DIVERSE A).
3. RAISED CLIMB TO ALTITUDE FROM 2000 TO 2600 - TO ENSURE OIS CLEARS OBSTACLES IN DIVERSE AREA.



US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|---|
| COTUS (IAF) | RAVOY (NOPT) (FB) | 116.33 / 8.00 | 4300 | LPV: DA LNAV/VNAV: DA LNAV: RW03 |
| DOKAC (IAF) | RAVOY (NOPT) (FB) | 296.79 / 8.00 | 4300 | |
| RAVOY (IF/IAF) | HALEY (FB) | 026.56 / 7.82 | 2600 | CLIMB TO 3700 DIRECT FEGEK AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3700. |
| HALEY (FAF) | GIDBE/3.05 NM TO RW03 (FB) | 026.73 / 4.90 | | |
| GIDBE/3.05 NM TO RW03 | RW03 (MAP) (FO) | 026.73 / 3.05 | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 207.25 INBOUND. CHART FAS OBST: 166 GRD 660233N/1624702W CHART 136 GRD 660139N/1625232W. DISTANCE TO THLD FROM 250 HAT: 0.65 NM. CHART VDP AT 1.17 NM TO RW03* *LNAV ONLY. WAAS CHANNEL # 97341 REFERENCE PATH ID: W03A CHART CIRCLING ICON. LTP HAE: 10.8 M |
| RW03 (MAP) | 275 MSL | 026.73 | 3700 | |
| 275 MSL | FEGEK (FO) | | | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW RAVOY, RT, 026.56 INBOUND, 4300 FT. IN LIEU OF PT (IAF)
3. FAC: 026.73 FAF: HALEY DIST FAF TO MAP: 7.95 THLD: 7.95
4. MIN. ALT: RAVOY 4300, HALEY 2600, GIDBE/3.05 NM TO RW03 1040*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2600 GS ALT AT: HALEY 2600 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: 11E 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 | 275 | 1 | 250 | 275 | 1 | 250 | 275 | 1 | 250 | | NA | | | | |
| LNAV/VNAV DA | 275 | 1 | 250 | 275 | 1 | 250 | 275 | 1 | 250 | | NA | | | | |
| LNAV MDA | 420 | 1 | 395 | 420 | 1 | 395 | 420 | 1 1/8 | 395 | | NA | | | | |
| CIRCLING | 680 | 1 | 650 | 840 | 1 | 810 | 840 | 2 1/4 | 810 | | NA | | | | |

NOTES:
 CHART NOTE: CIRCLING TO RWY 12, 30 NA AT NIGHT.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

@ CAT B 900-2, CAT C 900-2 1/4

QUALITY
4

| | | | | |
|-------------------------------|--|------------------------------|--|---|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 25 AIRPORT NAME: DEERING | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 2 AMDT: ORIG-A DATED 06/05/2008 |
|-------------------------------|--|------------------------------|--|---|

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. | 297/30 CW 017/30 (NOPT) | 297/24 CW 017/24 | 5300 |
| | 297/24 CW 017/24 | RAVOY (IF/IAF) (FB) | 4300 |
| | 017/30 CW 117/30 (NOPT) | RAVOY (IF/IAF) (FB) | 4300 |
| 2. | 117/30 CW 207/30 | COTUS (IAF) (FB) | 4300 |
| 3. | 207/30 CW 297/30 | 207/16 CW 297/16 | 4700 |
| | 207/16 CW 297/16 | DOKAC (IAF) (FB) | 4300 |

| | | | | | |
|--------------------------------------|--|----------|-------------------------------------|---|------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 AIRPORT NAME: DEERING | TDZE: 25 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 2 |
| | | | | | AMDT: ORIG-A |
| | | | | | DATED: 06/05/2008 |

QUALITY
4
CHECKED

**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 | PADE |
| RUNWAY | RW03 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W03A |
| LTP/FTP LATITUDE | 660354.7495N |
| LTP/FTP LONGITUDE | 1624626.6510W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00108 |
| FPAP LATITUDE | 660504.7800N |
| FPAP LONGITUDE | 1624412.2070W |
| 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 | 1736 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER DE781E69

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +00069 |
| FPAP ORTHOMETRIC HEIGHT | +00069 |

QUALITY
4
CHECKED

| | | | | | |
|-------------------------------|--------------------------|----------|------------------------------|--|-----------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 | TDZE: 25 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 2 |
| | AIRPORT NAME: DEERING | | | | AMDT: ORIG-A |
| | | | | | DATED: 06/05/2008 |

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

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ARINC SUMMARY - PADE

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| COTUS | 010 | COTUS | IF | FB | | | | | | | | | | E A |
| COTUS | 020 | RAVOY | TF | FB | 1.0 | 116.3 | | | | | | AA 04300 | | EE B |
| DOKAC | 010 | DOKAC | IF | FB | | | | | | | | | | E A |
| DOKAC | 020 | RAVOY | TF | FB | 1.0 | 296.8 | | | | | | AA 04300 | | EE B |
| RAVOY | 010 | RAVOY | HF | FO | | 026.6 | | | R | | | AA 04300 | | EE A |
| | 010 | RAVOY | IF | FB | | | | | | | | AA 04300 | | E I |
| | 020 | HALEY | TF | FB | 1.0 | 026.6 | | | | | | AA 02600 | | E F |
| | 030 | RW03 | TF | FO | 0.3 | 026.7 | | 3.00 | | | | AT 00068 | | GY M |
| | 031 | GIDBE | TF | FB | 0.3 | 026.7 | | 3.00 | | | | AA 01040 GS 01040 | | E S |
| | 040 | | CA | FB | | 026.7 | | | | | | AA 00275 | | M |
| | 050 | FEGEK | DF | FO | | | | | | | | AA 03700 | | EY |
| | 060 | FEGEK | HM | FO | | 207.3 | | | R | | | AA 03700 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| FEGEK | N661514.77 | W1622429.59 |
| COTUS | N655619.86 | W1632530.90 |
| DOKAC | N654636.71 | W1625438.78 |
| GIDBE | N660130.64 | W1625102.46 |
| HALEY | N655739.19 | W1625823.11 |
| RAVOY | N655129.04 | W1631001.92 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW03 | N660354.75 | W1624626.65 | 00023 | 45 |



| | | | | |
|--------------------------------------|--------------------------------------|----------------------|---|------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 25 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: RNAV (GPS) RWY 2 |
| | AIRPORT NAME: DEERING | RNAV | RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | AMDT: ORIG-A |
| | | | | DATED: 06/05/2008 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|-----------------------------------|---------------------|----------|---|
| CIRAC (IAF) | SAGKO (NOPT) (TF) (FB) (RNP 1.00) | 205.25 / 8.00 | 3000 | LNAV: RW12 |
| DICDE (IAF) | SAGKO (NOPT) (TF) (FB) (RNP 1.00) | 024.90 / 8.00 | 3000 | |
| SAGKO (IF/IAF) | FIBEB (TF) (FB) (RNP 1.00) | 115.08 / 7.65 | 1600 | CLIMBING LEFT TURN TO 3000 DIRECT SAGKO AND HOLD. |
| FIBEB (FAF) | RW12 (MAP) (TF) (FO) (RNP 0.30) | 115.31 / 4.79 | | |
| RW12 (MAP) | 430 MSL | 115.31 | | ADDITIONAL FLIGHT DATA: CHART FAS OBST: 213 TREE 660506N/1624830W CHART CIRCLING ICON. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. |
| 430 MSL | SAGKO (DF) (FO) | | 3000 | |


1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NW SAGKO, RT, 115.08 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 115.31 FAF: FIBEB DIST FAF TO MAP: 4.79 THLD: 4.79
4. MIN. ALT: SAGKO 3000, FIBEB 1600
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: 11E 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 | 520 | 1 | 490 | 520 | 1 | 490 | 520 | 1 3/8 | 490 | | NA | | | | |
| CIRCLING | 680 | 1 | 650 | 840 | 1 | 810 | 840 | 2 1/2 | 810 | | NA | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT B 900-2, CAT C 900-2 1/2
 CHART NOTE: RWY 12 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: STRAIGHT-IN RWY 12 NA AT NIGHT, CIRCLING RWY 12, 30 NA AT NIGHT

| | | | | |
|-------------------------------|--|------------------------------|---|---|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 30 AIRPORT NAME: DEERING | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 12 AMDT:  DATED 09/18/2014 |
|-------------------------------|--|------------------------------|---|---|

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. | 025/30 CW 071/30 (NOPT) | 025/9 CW 071/9 | 3600 |
| 2. | 025/9 CW 071/9 | SAGKO (IF/IAF) (FB) | 3000 |
| 3. | 071/30 CW 205/30 (NOPT) | SAGKO (IF/IAF) (FB) | 3000 |
| 4. | 205/30 CW 295/30 (NOPT) | 205/15 CW 295/15 | 3600 |
| 5. | 205/15 CW 295/15 | CIRAC (IAF) (FB) | 3000 |
| 6. | 295/30 CW 025/30 | 295/8 CW 025/8 (IAF) (FB) | 4300 |
| 7. | 295/8 CW 025/8 | DICDE (IAF) (FB) | 3600 |

| | | | | | |
|--------------------------------------|--|----------|-------------------------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 AIRPORT NAME: DEERING | TDZE: 30 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 11 |
| | | | | | AMDT: ORIG-C |
| | | | | | DATED: 09/18/2014 |

QUALITY
4
CHECKED

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

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| | | | | | |
|-------------------------------|---|----------|------------------------------|---|------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 AIRPORT NAME: DEERING | TDZE: 30 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 11 |
| | | | | | AMDT: ORIG-C |
| | | | | | DATED: 09/18/2014 |

QUALITY
4
CHECKED

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

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ARINC SUMMARY - PADE

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| CIRAC | 010 | CIRAC | IF | FB | | | | | | | | | | E A |
| CIRAC | 020 | SAGKO | TF | FB | 1.0 | 205.3 | | | | | | AA 03000 | | EE B |
| DICDE | 010 | DICDE | IF | FB | | | | | | | | | | E A |
| DICDE | 020 | SAGKO | TF | FB | 1.0 | 024.9 | | | | | | AA 03000 | | EE B |
| SAGKO | 010 | SAGKO | HF | FO | | 115.1 | | | R | | | AA 03000 | | EE A |
| | 010 | SAGKO | IF | FB | | | | | | | | AA 03000 | | E I |
| | 020 | FIBEB | TF | FB | 1.0 | 115.1 | | | | | | AA 01600 | | E F |
| | 030 | RW12 | TF | FO | 0.3 | 115.3 | | 0.00 | | | | AT 00520 | | GY M |
| | 040 | | CA | FB | | 115.3 | | | | | | AA 00430 | | M |
| | 050 | SAGKO | DF | FO | | | | | L | | | AA 03000 | | EY |
| | 060 | SAGKO | HM | FO | | 115.1 | | | R | | | AA 03000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CIRAC | N661804.32 | W1625927.54 |
| DICDE | N660511.16 | W1632241.58 |
| FIBEB | N660707.96 | W1625554.93 |
| SAGKO | N661138.16 | W1631107.50 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW12 | N660418.12 | W1624626.63 | 00030 | |



| | | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 30 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 12, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 11 |
| | AIRPORT NAME: DEERING | | | AMDT: ORIG-C |
| | | | | DATED: 09/18/2014 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|-----------------------|---------------------|----------|--|
| NANRE (IAF) | FEGEK (NOPT) (FB) | 297.48 / 8.00 | 3700 | LPV: DA LNAV/VNAV: DA LNAV: RW21 |
| PORIC (IAF) | FEGEK (NOPT) (FB) | 117.12 / 8.00 | 3700 | |
| FEGEK (IF/IAF) | HOREL (FB) | 207.25 / 9.40 | 1500 | CLIMB TO 4300 DIRECT RAVOY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4300. |
| HOREL (FAF) | RW21 (MAP) (FO) | 207.03 / 4.51 | | |
| RW21 (MAP) 275 MSL | 275 MSL RAVOY (FO) | 207.03 | 4300 | |

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 026.56 INBOUND.
CHART FAS OBST: 200 SHIP 660657N/1624038W
DISTANCE TO THLD FROM 250 HAT: 0.66 NM.
CHART VDP AT 1.36 NM TO RW21*
*LNAV ONLY.
WAAS CHANNEL # 56241
REFERENCE PATH ID: W21A
CHART CIRCLING ICON.
LTP HAE: 9.9 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE FEGEK, RT, 207.25 INBOUND, 3700 FT. IN LIEU OF PT (IAF)
3. FAC: 207.03 FAF: HOREL DIST FAF TO MAP: 4.51 THLD: 4.51
4. MIN. ALT: **FEGEK 3700, HOREL 1500**
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1500 GS ALT AT: HOREL 1500 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: 11E 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 | 275 | 1 | 250 | 275 | 1 | 250 | 275 | 1 | 250 | | NA | | | | |
| LNAV/VNAV DA | 332 | 1 | 307 | 332 | 1 | 307 | 332 | 1 | 307 | | NA | | | | |
| LNAV MDA | 500 | 1 | 475 | 500 | 1 | 475 | 500 | 1 3/8 | 475 | | NA | | | | |
| CIRCLING | 680 | 1 | 650 | 840 | 1 | 810 | 840 | 2 1/4 | 810 | | NA | | | | |

NOTES:
CHART NOTE: CIRCLING TO RWY 12, 30 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.

@ CAT B 900-2, CAT C 900-2 1/4

| | | | | |
|-------------------------------|--|------------------------------|---|---|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 25 AIRPORT NAME: DEERING | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 21 AMDT: 016-A DATED 06/05/2008 |
|-------------------------------|--|------------------------------|---|---|

QUALITY

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 252/30 (NOPT) | FEGEK (IF/IAF) (FB) | 3700 |
| | 252/30 CW 297/30 | 252/25 CW 297/25 | 3900 |
| | 252/25 CW 297/25 (NOPT) | FEGEK (IF/IAF) (FB) | 3700 |
| 2. | 297/30 CW 027/30 | 297/19 CW 027/19 | 4400 |
| | 297/19 CW 027/19 | NANRE (IAF) (FB) | 3700 |
| 3. | 027/30 CW 117/30 | PORIC (IAF) (FB) | 3700 |

| | | | | |
|--------------------------------------|---|-------------------------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 25 AIRPORT NAME: DEERING | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 20 |
| | | | | AMDT: ORIG-A |
| | | | | DATED: 06/05/2008 |



**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 | PADE |
| RUNWAY | RW21 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W21A |
| LTP/FTP LATITUDE | 660420.5160N |
| LTP/FTP LONGITUDE | 1624537.1990W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00099 |
| FPAP LATITUDE | 660310.4660N |
| FPAP LONGITUDE | 1624751.5155W |
| 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 | 1736 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER 4D03C430

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +00060 |
| FPAP ORTHOMETRIC HEIGHT | +00060 |

| | | | | | |
|-------------------------------|--------------------------|----------|------------------------------|---|------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 | TDZE: 25 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 20 |
| | AIRPORT NAME: DEERING | | | | AMDT: ORIG-A |
| | | | | | DATED: 06/05/2008 |



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 - PADE

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| FEGEK | 010 | FEGEK | HF | FO | | 207.3 | | | R | | | AA 03700 | | EE A |
| NANRE | 010 | NANRE | IF | FB | | | | | | | | | | E A |
| NANRE | 020 | FEGEK | TF | FB | 1.0 | 297.5 | | | | | | AA 03700 | | EE B |
| PORIC | 010 | PORIC | IF | FB | | | | | | | | | | E A |
| PORIC | 020 | FEGEK | TF | FB | 1.0 | 117.1 | | | | | | AA 03700 | | EE B |
| | 010 | FEGEK | IF | FB | | | | | | | | AA 03700 | | E I |
| | 020 | HOREL | TF | FB | 1.0 | 207.3 | | | | | | AA 01500 | | E F |
| | 030 | RW21 | TF | FO | 0.3 | 207.0 | | 3.00 | | | | AT 00065 | | GY M |
| | 040 | | CA | FB | | 207.0 | | | | | | AA 00275 | | M |
| | 050 | RAVOY | DF | FO | | | | | | | | AA 04300 | | EY |
| | 060 | RAVOY | HM | FO | | 026.6 | | | R | | | AA 04300 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| FEGEK | N661514.77 | W1622429.59 |
| HOREL | N660752.91 | W1623848.30 |
| NANRE | N661017.88 | W1620900.78 |
| PORIC | N662010.67 | W1624002.75 |
| RAVOY | N655129.04 | W1631001.92 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW21 | N660420.52 | W1624537.20 | 00020 | 45 |



| | | | | | |
|--------------------------------------|----------------------|-----------------|----------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 | TDZE: 25 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: RNAV (GPS) RWY 20 |
| | AIRPORT NAME: | DEERING | RNAV | RNAV (GPS) RWY 21, AMDT 1 | AMDT: ORIG-A |
| | | | | 5 JANUARY 2017 | DATED: 06/05/2008 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|---|---|---------------------|----------|---|
| JALNU (IAF) | GOTGE (NOPT) (TF) (FB) (RNP 1.00) | 025.72 / 8.00 | 3600 | LNAV: RW30 |
| KALKE (IAF) | GOTGE (NOPT) (TF) (FB) (RNP 1.00) | 206.08 / 8.00 | 3600 | |
| GOTGE (IF/IAF) | JEMUM (TF) (FB) (RNP 1.00) | 295.90 / 8.00 | 2000 | |
| JEMUM (FAF) | NARIY/3.88 NM TO RW30 (TF) (FB) (RNP 0.30) | 295.66 / 2.20 | | |
| NARIY/3.88 NM TO RW30 (SEE FORM 8260-10) | RW30 (MAP) (TF) (FO) (RNP 0.30) | 295.66 / 3.88 | | CLIMB TO 3000 DIRECT SAGKO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 115.08 INBOUND. CHART FAS OBST: 429 TREE 660248N/1624306W CHART CIRCLING ICON. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SE GOTGE, RT, 295.90 INBOUND, 3600 FT. IN LIEU OF PT (IAF)
3. FAC: 295.66 FAF: JEMUM DIST FAF TO MAP: 6.08 THLD: 6.08
4. MIN. ALT: **GOTGE 3600, JEMUM 2000, NARIY/3.88 NM TO RW30 1300**
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: 11E 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 | 740 | 1 | 710 | 740 | 1 | 710 | 740 | 2 | 710 | | NA | | | | |
| CIRCLING | 740 | 1 | 710 | 840 | 1 | 810 | 840 | 2 1/4 | 810 | | NA | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT B 900-2, CAT C 900-2 1/4
 CHART NOTE: RWY 30 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: STRAIGHT-IN RWY 12 NA AT NIGHT, CIRCLING RWY 12, 30 NA AT NIGHT.

| | | | | |
|-------------------------------|--|------------------------------|---|--|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 30 AIRPORT NAME: DEERING | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 30 AMDT: ORIG-C DATED 09/18/2014 |
|-------------------------------|--|------------------------------|---|--|



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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-------------|-----------------|----------------------------|-----------------|
| RW30 (MAP) | 430 MSL | 295.66 | |
| 430 MSL | SAGKO (DF) (FO) | | 3000 |

TAA

| | <u>FROM</u> | <u>TO</u> | <u>ALT</u> |
|----|-------------------------|-----------------------------|------------|
| 1. | 206/30 CW 312/30 (NOPT) | 206/20 CW 312/20 | 4800 |
| 2. | 206/20 CW 312/20 | GOTGE (IAF) (FB) | 3600 |
| 3. | 312/30 CW 026/30 | 312/12 CW 026/12 (IAF) (FB) | 4700 |
| 4. | 312/12 CW 026/12 | GOTGE (FB) | 3600 |
| 5. | 026/30 CW 116/30 | 021/15 CW 111/15 | 4500 |
| 6. | 026/15 CW 116/15 | JALNU (IAF) (FB) | 3900 |
| 7. | 116/30 CW 206/30 | KALKE (IAF) (FB) | 3600 |



| | | | | | |
|--------------------------------------|--|----------|-------------------------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 AIRPORT NAME: DEERING | TDZE: 30 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 29 |
| | | | | | AMDT: ORIG-C |
| | | | | | DATED: 09/18/2014 |

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

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QUALITY
 CHECKED

| | | | | | |
|-------------------------------|--------------------------|----------|------------------------------|---|------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 | TDZE: 30 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 29 |
| | AIRPORT NAME: DEERING | | | | AMDT: ORIG-C |
| | | | | | DATED: 09/18/2014 |

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.

(This area is intentionally left blank for the instrument approach procedure content.)



| | | | | | |
|--------------------------------------|---|-----------------|-------------------------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 AIRPORT NAME: DEERING | TDZE: 30 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 29 |
| | | | | | AMDT: ORIG-C |
| | | | | | DATED: 09/18/2014 |

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 - PADE

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| GOTGE | 010 | GOTGE | HF | FO | | 295.9 | | | R | | | AA 03600 | | EE A |
| JALNU | 010 | JALNU | IF | FB | | | | | | | | | | E A |
| JALNU | 020 | GOTGE | TF | FB | 1.0 | 025.7 | | | | | | AA 03600 | | EE B |
| KALKE | 010 | KALKE | IF | FB | | | | | | | | | | E A |
| KALKE | 020 | GOTGE | TF | FB | 1.0 | 206.1 | | | | | | AA 03600 | | EE B |
| | 010 | GOTGE | IF | FB | | | | | | | | AA 03600 | | E I |
| | 020 | JEMUM | TF | FB | 1.0 | 295.9 | | | | | | AA 02000 | | E F |
| | 021 | NARIY | TF | FB | 0.3 | 295.7 | | | | | | AA 01300 | | E S |
| | 030 | RW30 | TF | FO | 0.3 | 295.7 | | 0.00 | | | | AT 00740 | | GY M |
| | 040 | | CA | FB | | 295.7 | | | | | | AA 00430 | | M |
| | 050 | SAGKO | DF | FO | | | | | | | | AA 03000 | | EY |
| | 060 | SAGKO | HM | FO | | 115.1 | | | R | | | AA 03000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| GOTGE | N655539.73 | W1621757.67 |
| JALNU | N654916.77 | W1622938.10 |
| JEMUM | N660026.14 | W1623337.32 |
| KALKE | N660201.79 | W1620611.40 |
| NARIY | N660144.44 | W1623756.18 |
| SAGKO | N661138.16 | W1631107.50 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW30 | N660402.56 | W1624534.80 | 00020 | |



| | | | | |
|--------------------------------------|--------------------------------------|----------------------|--|-------------------------------|
| CITY AND STATE DEERING, AK | ELEVATION: 30 TDZE: 30 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: RNAV (GPS) RWY 29 |
| | AIRPORT NAME: DEERING | RNAV | RNAV (GPS) RWY 30, AMDT 1 5 JANUARY 2017 | AMDT: ORIG-C |
| | | | | DATED: 09/18/2014 |

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 |
|-------------|---------|----------------|---------|
| DEERING, AK | DEERING | 5 JANUARY 2017 | 2 |

TAKEOFF MINIMUMS:

RWY 3, 21, STANDARD.

RWY 12, STANDARD WITH MINIMUM CLIMB OF 350 FEET PER NM TO 700, OR 1100-2 1/2 FOR CLIMB IN VISUAL CONDITIONS.

RWY 30, STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 21 - CLIMB HEADING 209 TO 600 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

RWY 12 - FOR CLIMB IN VISUAL CONDITIONS, CROSS DEERING AIRPORT AT OR ABOVE 1000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 03, VEGETATION 20 FT FROM DER, 138 FT RIGHT OF CENTERLINE, 23 FT MSL. VEGETATION 25 FT FROM DER, 127 FT LEFT OF CENTERLINE, 21 FT MSL. TERRAIN, BEGINNING 68 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 37 FT MSL. TERRAIN, BEGINNING 157 FT FROM DER, 178 FT LEFT OF CENTERLINE, UP TO 37 FT MSL. POLE, TERRAIN, BEGINNING 246 FT FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 28 FT AGL/42 FT MSL. TERRAIN, BEGINNING 397 FT FROM DER, 365 FT LEFT OF CENTERLINE, UP TO 40 FT MSL. POLE, TERRAIN, BEGINNING 575 FT FROM DER, 212 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/50 FT MSL.

NOTE: RWY 12, TERRAIN 114 FT FROM DER, 238 FT RIGHT OF CENTERLINE, 30 FT MSL. TERRAIN 132 FT FROM DER, 153 FT LEFT OF CENTERLINE, 30 FT MSL. TERRAIN 5565 FT FROM DER, 1138 FT LEFT OF CENTERLINE, 165 FT MSL. TERRAIN, BEGINNING 5582 FT FROM DER, 255 FT LEFT OF CENTERLINE, UP TO 201 FT MSL. TERRAIN, BEGINNING 5963 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 210 FT MSL. TERRAIN, BEGINNING 6002 FT FROM DER, 774 FT RIGHT OF CENTERLINE, UP TO 181 FT MSL. TERRAIN 1 NM FROM DER, 1187 FT LEFT OF CENTERLINE, 217 FT MSL. TERRAIN, GRD, BEGINNING 1 NM FROM DER, 157 FT LEFT OF CENTERLINE, UP TO 227 FT MSL. TERRAIN, BEGINNING 1 NM FROM DER, 234 FT RIGHT OF CENTERLINE, UP TO 201 FT MSL. TERRAIN 1 NM FROM DER, 2049 FT RIGHT OF CENTERLINE, 204 FT MSL. TERRAIN, BEGINNING 1 NM FROM DER, 87 FT RIGHT OF CENTERLINE, UP TO 210 FT MSL. TERRAIN, BEGINNING 1 NM FROM DER, 60 FT LEFT OF CENTERLINE, UP TO 237 FT MSL. TERRAIN, GRD, VEGETATION, BEGINNING 1 NM FROM DER, 31 FT RIGHT OF CENTERLINE, UP TO 220 FT MSL. TERRAIN, GRD, BEGINNING 1.1 NM FROM DER, 207 FT LEFT OF CENTERLINE, UP TO 243 FT MSL. TERRAIN, VEGETATION, BEGINNING 1.1 NM FROM DER, 37 FT RIGHT OF CENTERLINE, UP TO 243 FT MSL. TERRAIN, GRD, BEGINNING 1.1 NM FROM DER, 109 FT LEFT OF CENTERLINE, UP TO 253 FT MSL. GRD 1.1 NM FROM DER, 2042 FT RIGHT OF CENTERLINE, 243 FT MSL. TERRAIN, GRD, BEGINNING 1.1 NM FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 240 FT MSL. TERRAIN, GRD, BEGINNING 1.1 NM FROM DER, 257 FT LEFT OF CENTERLINE, UP TO 260 FT MSL. TERRAIN 1.2 NM FROM DER, 1312 FT RIGHT OF CENTERLINE, 253 FT MSL. TERRAIN, BEGINNING 1.2 NM FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 273 FT MSL. TERRAIN, BEGINNING 1.2 NM FROM DER, 135 FT RIGHT OF CENTERLINE, UP TO 263 FT MSL. GRD, TERRAIN, BEGINNING 1.2 NM FROM DER, 36 FT RIGHT OF CENTERLINE, UP TO 274 FT MSL. TERRAIN, GRD, BEGINNING 1.2 NM FROM DER, 159 FT LEFT OF CENTERLINE, UP TO 286 FT MSL. TERRAIN, BEGINNING 1.2 NM FROM DER, 85 FT RIGHT OF CENTERLINE, UP TO 276 FT MSL. TERRAIN, BEGINNING 1.2 NM FROM DER, 306 FT LEFT OF CENTERLINE, UP TO 306 FT MSL. TERRAIN, GRD, BEGINNING 1.3 NM FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 315 FT MSL. TERRAIN, BEGINNING 1.3 NM FROM DER, 723 FT RIGHT OF CENTERLINE, UP TO 299 FT MSL. GRD, TERRAIN, BEGINNING 1.3 NM FROM DER, 330 FT RIGHT OF CENTERLINE, UP TO 305 FT MSL. TERRAIN, GRD, BEGINNING 1.3 NM FROM DER, 14 FT LEFT OF CENTERLINE, UP TO 325 FT MSL. TERRAIN, BEGINNING 1.3 NM FROM DER, 183 FT RIGHT OF CENTERLINE, UP TO 315 FT MSL. TERRAIN, BEGINNING 1.4 NM FROM DER, 35 FT RIGHT OF CENTERLINE, UP TO 315 FT MSL. TERRAIN, GRD, BEGINNING 1.4 NM FROM DER, 280 FT RIGHT OF CENTERLINE, UP TO 332 FT MSL. TERRAIN, BEGINNING 1.4 NM FROM DER, 133 FT RIGHT OF CENTERLINE, UP TO 335 FT MSL. TERRAIN, GRD, BEGINNING 1.4 NM FROM DER, 378 FT RIGHT OF CENTERLINE, UP TO 352 FT MSL. TERRAIN, GRD, BEGINNING 1.5 NM FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 429 FT MSL. TERRAIN 1.9 NM FROM DER, 3416 FT RIGHT OF CENTERLINE, 325 FT MSL.

NOTE: RWY 21, LT, BEGINNING ABEAM DER, 47 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/27 FT MSL. LT, REIL LTD, BEGINNING ABEAM DER, 51 FT RIGHT OF CENTERLINE, UP TO 4 FT AGL/26 FT MSL. TERRAIN, BEGINNING 56 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 60 FT MSL. TERRAIN 81 FT FROM DER, 515 FT LEFT OF CENTERLINE, 40 FT MSL. TERRAIN, BEGINNING 233 FT FROM DER, 125 FT LEFT OF CENTERLINE, UP TO 43 FT MSL. TERRAIN, BEGINNING 601 FT FROM DER, 265 FT RIGHT OF CENTERLINE, UP TO 63 FT MSL. TERRAIN 1539 FT FROM DER, 859 FT RIGHT OF CENTERLINE, 69 FT MSL. TERRAIN, BEGINNING 1932 FT FROM DER, 867 FT RIGHT OF CENTERLINE, UP TO 86 FT MSL. TERRAIN, BEGINNING 2476 FT FROM DER, 883 FT RIGHT OF CENTERLINE, UP TO 92 FT MSL.

NOTE: RWY 30, TERRAIN 86 FT FROM DER, 299 FT RIGHT OF CENTERLINE, 40 FT MSL. TERRAIN 104 FT FROM DER, 92 FT LEFT OF CENTERLINE, 43 FT MSL. TERRAIN, BEGINNING 122 FT FROM DER, 239 FT LEFT OF CENTERLINE, UP TO 46 FT MSL. TERRAIN, BEGINNING 268 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 43 FT MSL. TERRAIN, BEGINNING 467 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 50 FT MSL. TERRAIN, BEGINNING 648 FT FROM DER, 250 FT RIGHT OF CENTERLINE, UP TO 60 FT MSL. TERRAIN, BEGINNING 683 FT FROM DER, 141 FT LEFT OF CENTERLINE, UP TO 56 FT MSL. TERRAIN, BEGINNING 847 FT FROM DER, 103 FT RIGHT OF CENTERLINE, UP TO 66 FT MSL. TERRAIN 883 FT FROM DER, 288 FT LEFT OF CENTERLINE, 66 FT MSL. TERRAIN, BEGINNING 900 FT FROM DER, 43 FT LEFT OF CENTERLINE, UP TO 73 FT MSL. TERRAIN, BEGINNING 1046 FT FROM DER, 201 FT RIGHT OF CENTERLINE, UP TO 69 FT MSL.

CONTROLLING OBSTACLES:

RWY 12: 429 FT MSL TREE 660245.19N/1624316.00W (CLIMB GRADIENT) 906 FT MSL AAO 660109.82N/1623759.57W (CLIMB TO ALTITUDE)

RWY 30: 179 FT MSL TREE 660443.34N/1624802.55W VCOA: 906 FT MSL AAO 660109.82N/1623759.57W



**FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
 TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 |
| DEERING, AK | DEERING | 5 JANUARY 2017 | 2 |

REMARKS:

| | | | |
|-----------------------------|----------------------------|-----------------------|--------------|
| FLIGHT INSPECTED BY: | <i>Digitally signed by</i> | OFFICE SYMBOL: | DATE: |
| DANIEL C FAVORITE | STEVEN A VARGAS | FICO | 10/31/2016 |
| | Nov 10, 2016 | | |

| | | | |
|----------------------|----------------------------|-----------------------|--------------|
| DEVELOPED BY: | <i>Digitally signed by</i> | OFFICE SYMBOL: | DATE: |
| JIMMY S. HUGHES | JIMMY S HUGHES | AJV-5432 | 06/24/2016 |
| | Jul 26, 2016 | | |

| | | | |
|---------------------|----------------------------|-----------------------|--------------|
| APPROVED BY: | <i>Digitally signed by</i> | OFFICE SYMBOL: | DATE: |
| LONNIE EVERHART | STEVEN A VARGAS | AJV-5430 | |
| | Nov 10, 2016 | | |

REQUIRED EFFECTIVE DATE:
 ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:
 APT MGR, ZAN

CHANGES - REASONS:

1. RWY NUMBERS CHANGED FROM 2/20 TO 3/21, 11/29 TO 12/30 - AIRPORT MAGVAR CHANGED FROM 16E TO 11E.
2. UPDATED OBSTACLE TAKEOFF NOTES - NEW SURVEY ADDED NUMEROUS NEW OBSTACLES.
3. REMOVED VISIBILITY AND CLIMB GRADIENT TO RWY 30 - NO OBSTACLES CAUSE CLIMB GRADIENT.
4. DECREASED CLIMB GRADIENT AND CLIMB TO ALTITUDE FOR RWY 12 FROM 360 FT PER NM TO 800 TO 350 FT PER NM TO 700 - SAME PREVIOUS OBSTACLE REDUCED CLIMB GRADIENT AND CLIMB TO ALTITUDE.



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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|------------------------|-----------------------------|---------------------|----------|--|
| YENUY (IAF) | ZETMO (NOPT) (FB) | 099.65 / 8.00 | 2500 | LPV: DA LNAV/VNAV: DA LNAV: JIPAV |
| CIRMI (IAF) | ZETMO (NOPT) (FB) | 339.92 / 8.00 | 2500 | |
| ZETMO (IF/IAF) | EKNAC (FB) | 039.92 / 7.40 | 2000 | CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2500 DIRECT ZETMO AND HOLD. |
| EKNAC (FAF) | OVEME/2.40 NM TO JIPAV (FB) | 040.16 / 2.14 | | |
| OVEME/2.40 NM TO JIPAV | JIPAV (MAP) (FO) | 040.16 / 2.40 | | ADDITIONAL FLIGHT DATA: CHART FAS OBST: 584 TWR 663345N/1451422W CHART YUKON 5 MOA. DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.21 NM TO JIPAV* *LNAV ONLY. WAAS CHANNEL # 72939 REFERENCE PATH ID: W04A CHART CIRCLING ICON. LTP HAE: 141.6 M |
| JIPAV (MAP) | 1000 MSL | 040.16 | 1000 | |
| 1000 MSL | ZETMO (FO) | | 2500 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW ZETMO, RT, 039.92 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 040.16 FAF: EKNAC DIST FAF TO MAP: 4.53 THLD: 4.73
4. MIN. ALT: ZETMO 2500, EKNAC 2000, OVEME/2.40 NM TO JIPAV 1320*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2000 GS ALT AT: EKNAC 2000 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 20E 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 | 697 | 1 | 250 | 697 | 1 | 250 | 697 | 1 | 250 | 697 | 1 | 250 | | | |
| LNAV/VNAV DA | 764 | 1 | 317 | 764 | 1 | 317 | 764 | 1 | 317 | 764 | 1 | 317 | | | |
| LNAV MDA | 860 | 1 | 413 | 860 | 1 | 413 | 860 | 1 1/8 | 413 | 860 | 1 1/8 | 413 | | | |
| CIRCLING | 860 | 1 | 413 | 900 | 1 | 453 | 900 | 1 1/2 | 453 | 1000 | 2 | 553 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F).
CHART NOTE: CIRCLING NA SE OF RWY 4-22.
CHART NOTE: DME/DME RNP-0.3 NA.
(CONTINUED ON PAGE 2)

QUALITY
22
CHECKED

| | | | | |
|---|--|-------------------------------------|---|--|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 TDZE: 447 AIRPORT NAME: FORT YUKON | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1C DATED 03/05/2015 |
|---|--|-------------------------------------|---|--|

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.):

*LNAV ONLY

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

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

TAA

| | <u>FROM</u> | <u>TO</u> | <u>ALT</u> |
|----|-------------------------|-----------------------|------------|
| 1. | 340/30 CW 100/30 (NOPT) | 340/22 CW 100/22 | 3500 |
| 2. | 340/22 CW 100/22 | ZETMO (IF/IAF) (FB) | 2500 |
| 3. | 100/30 CW 220/30 (NOPT) | YENUY (IAF) (FB) | 2500 |
| 4. | 220/30 CW 340/30 (NOPT) | 220/14 CW 340/14 (FB) | 5800 |
| 5. | 220/14 CW 340/14 | CIRMI (IAF) (FB) | 2500 |

QUALITY
22
CHECKED

| | | | | | |
|---|---|-------------------------------------|---|--------|-------------------|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 TDZE: 447 AIRPORT NAME: FORT YUKON | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 2 5 JANUARY 2017 | SUP: | 22 |
| | | | | AMDT: | 1C |
| | | | | 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 | PFYU |
| RUNWAY | RW04 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W04A |
| LTP/FTP LATITUDE | 663408.4850N |
| LTP/FTP LONGITUDE | 1451540.4920W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01416 |
| FPAP LATITUDE | 663452.4135N |
| FPAP LONGITUDE | 1451226.6220W |
| 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 | 1224 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER 14F48922

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +01363 |
| FPAP ORTHOMETRIC HEIGHT | +01363 |

QUALITY
22
CHECKED

| | | | | | | | |
|---|------------------------------------|-----------|-------------------------------------|---|------|--------|------------|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 | TDZE: 447 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 2 5 JANUARY 2017 | SUP: | 22 | |
| | AIRPORT NAME: FORT YUKON | | | | | AMDT: | 1C |
| | | | | | | DATED: | 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

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ARINC SUMMARY - PFYU

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| CIRMI | 010 | CIRMI | IF | FB | | | | | | | | | | E A |
| CIRMI | 020 | ZETMO | TF | FB | 1.0 | 339.9 | | | | | | AA 02500 | | EE B |
| YENUY | 010 | YENUY | IF | FB | | | | | | | | | | E A |
| YENUY | 020 | ZETMO | TF | FB | 1.0 | 099.7 | | | | | | AA 02500 | | EE B |
| ZETMO | 010 | ZETMO | HF | FO | | 039.9 | | | R | | | AA 02500 | | EE A |
| | 010 | ZETMO | IF | FB | | | | | | | | AA 02500 | | E I |
| | 020 | EKNAC | TF | FB | 1.0 | 039.9 | | | | | | AA 02000 | | E F |
| | 021 | OVEME | TF | FB | 0.3 | 040.2 | | 3.00 | | | | AA 01320 GS 01320 | | E S |
| | 030 | JIPAV | TF | FO | 0.3 | 040.2 | | 3.00 | | | | AT 00556 | | EY M |
| | 040 | | CA | FB | | 040.2 | | | | | | AA 01000 | | M |
| | 050 | ZETMO | DF | FO | | | | | L | | | AA 02500 | | EY |
| | 060 | ZETMO | HM | FO | | 039.9 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CIRMI | N662008.73 | W1454155.92 |
| EKNAC | N663147.98 | W1452557.35 |
| JIPAV | N663402.56 | W1451606.59 |
| OVEME | N663251.43 | W1452119.40 |
| YENUY | N663204.65 | W1455917.55 |
| ZETMO | N662807.04 | W1454157.58 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW04 | N663408.49 | W1451540.49 | 00447 | 45 |

QUALITY
22
CHECKED

| | | | | |
|---|--|----------------------|---|--------------------------|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 TDZE: 447 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: FORT YUKON | RNAV | RNAV (GPS) RWY 4, AMDT 2 5 JANUARY 2017 | AMDT: 1C |
| | | | | DATED: 03/05/2015 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|-------------------|---------------------|----------|---|
| OSNAE (IAF) | AWIRO (NOPT) (FB) | 160.72 / 8.00 | 2000 | LPV: DA LNAV/VNAV: DA LNAV: AGALE |
| WILAD (IAF) | AWIRO (NOPT) (FB) | 280.98 / 8.00 | 2000 | |
| AWIRO (IF/IAF) | EYIMO (FB) | 220.71 / 6.10 | 2000 | CLIMBING LEFT TURN TO 2000 DIRECT AWIRO AND HOLD. |
| EYIMO (FAF) | AGALE (MAP) (FO) | 220.51 / 4.64 | | |
| AGALE (MAP) | 697 MSL | 220.51 | | ADDITIONAL FLIGHT DATA: FAS OBST: 650 AAO 663539N/1450600W CHART YUKON 5 MOA. DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.42 NM TO AGALE* *LNAV ONLY. WAAS CHANNEL # 50539 REFERENCE PATH ID: W22A CHART CIRCLING ICON LTP HAE: 141.6 M |
| 697 MSL | AWIRO (FO) | | 2000 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE AWIRO, RT, 220.71 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 220.51 FAF: EYIMO DIST FAF TO MAP: 4.59 THLD: 4.74
4. MIN. ALT: AWIRO 2000, EYIMO 2000
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2000 GS ALT AT: EYIMO 2000 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 20E 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 | 697 | 1 | 250 | 697 | 1 | 250 | 697 | 1 | 250 | 697 | 1 | 250 | | | |
| LNAV/VNAV DA | 716 | 1 | 269 | 716 | 1 | 269 | 716 | 1 | 269 | 716 | 1 | 269 | | | |
| LNAV MDA | 960 | 1 | 513 | 960 | 1 | 513 | 960 | 1 1/4 | 513 | 960 | 1 1/4 | 513 | | | |
| CIRCLING | 960 | 1 | 513 | 960 | 1 | 513 | 960 | 1 1/2 | 513 | 1000 | 2 | 553 | | | |

NOTES:
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV OR LNAV/VNAV ALL CATS.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F).
 CHART NOTE: CIRCLING NA SE OF RWYS 04 AND 22.
 (CONTINUED ON PAGE 2)



| | | | | |
|---|--|-------------------------------------|--|--|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 TDZE: 447 AIRPORT NAME: FORT YUKON | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1C DATED 03/05/2015 |
|---|--|-------------------------------------|--|--|

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: DME/DME RNP-0.3 NA.
CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C AND D VISIBILITY 1/8 SM.

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 161/30 CW 281/30 (NOPT) | 161/19 CW 281/19 | 3300 |
| 2. | 161/19 CW 281/19 | AWIRO (IF/IAF) (FB) | 2100 |
| 3. | 281/30 CW 041/30 | 281/16 CW 041/16 | 2600 |
| 4. | 281/16 CW 041/16 | WILAD (IAF) (FB) | 2100 |
| 5. | 041/30 CW 161/30 | 041/16 CW 161/16 | 3700 |
| 6. | 041/16 CW 161/16 | OSNAE (IAF) (FB) | 2200 |

QUALITY
22
CHECKED

| | | | | |
|---|---|-------------------------------------|--|--------------------------|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 TDZE: 447 AIRPORT NAME: FORT YUKON | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1C |
| | | | | 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 | PFYU |
| RUNWAY | RW22 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W22A |
| LTP/FTP LATITUDE | 663432.8415N |
| LTP/FTP LONGITUDE | 1451353.0940W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01416 |
| FPAP LATITUDE | 663348.8875N |
| FPAP LONGITUDE | 1451706.8845W |
| 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 | 1224 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER F971A171

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +01363 |
| FPAP ORTHOMETRIC HEIGHT | +01363 |

QUALITY
22
CHECKED

| | | | | | | |
|---|------------------------------------|------------------|-------------------------------------|--|--------|-------------------|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 | TDZE: 447 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: | |
| | AIRPORT NAME: FORT YUKON | | | | AMDT: | 1C |
| | | | | | DATED: | 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 - PFYU

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| AWIRO | 010 | AWIRO | HF | FO | | 220.7 | | | R | | | AA 02000 | | EE A |
| OSNAE | 010 | OSNAE | IF | FB | | | | | | | | | | E A |
| OSNAE | 020 | AWIRO | TF | FB | 1.0 | 160.7 | | | | | | AA 02000 | | EE B |
| WILAD | 010 | WILAD | IF | FB | | | | | | | | | | E A |
| WILAD | 020 | AWIRO | TF | FB | 1.0 | 281.0 | | | | | | AA 02000 | | EE B |
| | 010 | AWIRO | IF | FB | | | | | | | | AA 02000 | | E I |
| | 020 | EYIMO | TF | FB | 1.0 | 220.7 | | | | | | AA 02000 | | E F |
| | 030 | AGALE | TF | FO | 0.3 | 220.5 | | 3.00 | | | | AT 00524 | | EY M |
| | 040 | | CA | FB | | 220.5 | | | | | | AA 00697 | | M |
| | 050 | AWIRO | DF | FO | | | | | L | | | AA 02000 | | EY |
| | 060 | AWIRO | HM | FO | | 220.7 | | | R | | | AA 02000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| AGALE | N663435.80 | W1451340.04 |
| AWIRO | N663951.53 | W1445013.36 |
| EYIMO | N663652.55 | W1450333.90 |
| OSNAE | N664749.78 | W1444958.20 |
| WILAD | N663546.27 | W1443259.25 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW22 | N663432.84 | W1451353.09 | 00447 | 45 |

| | | | | |
|---|--|---|--|------|
| CITY AND STATE FORT YUKON, AK | ELEVATION: 447 TDZE: 447 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: FORT YUKON | | AMDT: 1C | |
| | | | DATED: 03/05/2015 | |

QUALITY
22
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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|-----------------------------------|---------------------|----------|--|
| JUKEL (IAF) | ZOXOP (NOPT) (TF) (FB) (RNP 1.00) | 284.18 / 10.00 | 3900 | LNAV: WATMO |
| HESTS (IAF) | ZOXOP (NOPT) (TF) (FB) (RNP 1.00) | 103.56 / 10.00 | 3900 | |
| ZOXOP (IF/IAF) | LEBTE (TF) (FB) (RNP 1.00) | 013.87 / 7.70 | 2100 | |
| LEBTE (FAF) | WATMO (MAP) (TF) (FO) (RNP 0.30) | 014.00 / 4.85 | | |
| WATMO (MAP) | 1500 MSL | 014.00 | 1500 | CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3900 DIRECT ZOXOP AND HOLD. |
| 1500 MSL | ZOXOP (DF) (FO) (RNP 1.00) | | 3900 | |

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 559 TREE 644347N/1580446W
CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE
OFFSET 14.92 DEGREES
CHART GALENA AWOS-3.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD S ZOXOP, RT, 013.87 INBOUND, 3900 FT. IN LIEU OF PT (IAF)**
3. FAC: 014.00 FAF: LEBTE DIST FAF TO MAP: 4.85 THLD: 5.33
4. MIN. ALT: **ZOXOP 3900, LEBTE 2100**
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: 13E 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 |
| LNAV MDA | 920 | 1 | 522 | 920 | 1 | 522 | 920 | 1 1/2 | 522 | 920 | 1 1/2 | 522 | | | |
| CIRCLING | 1280 | 1 1/4 | 874 | 1380 | 1 1/2 | 974 | 1420 | 3 | 1014 | 1620 | 3 | 1214 | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: USE GALENA ALTIMETER SETTING.



| | | | | |
|-------------------------------------|--|-------------------------------------|--|---|
| CITY AND STATE NULATO, AK | ELEVATION: 406 TDZE: 398 AIRPORT NAME: NULATO | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 2 AMD T: ORIG DATED 11/25/2004 |
|-------------------------------------|--|-------------------------------------|--|---|

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. | 284/30 CW 014/30 (NOPT) | 284/10 CW 014/10 | 5100 |
| 2. | 284/10 CW 014/10 | ZOXOP (IF/IAF) (FB) | 3900 |
| 3. | 014/30 CW 104/30 (NOPT) | 014/5 CW 104/5 | 6300 |
| 4. | 014/5 CW 104/5 | ZOXOP (IF/IAF) (FB) | 3900 |
| 5. | 104/30 CW 194/30 | HESTS (IAF) (FB) | 5500 |
| 6. | 194/30 CW 284/30 | JUKEL (IAF) (FB) | 5000 |



| | | | | | |
|-------------------------------------|--|-----------|-------------------------------------|---|------------------------------|
| CITY AND STATE NULATO, AK | ELEVATION: 406 AIRPORT NAME: NULATO | TDZE: 398 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 2 |
| | | | | | AMDT: ORIG |
| | | | | | DATED: 11/25/2004 |

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.



| | | | | |
|-------------------------------------|--|-------------------------------------|---|------------------------------|
| CITY AND STATE NULATO, AK | ELEVATION: 406 TDZE: 398 AIRPORT NAME: NULATO | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 2 |
| | | | | AMDT: ORIG |
| | | | | DATED: 11/25/2004 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|--------------------------------------|---------------------|----------|---|
| MASNS (IAF) | TOYUP (NOPT) (TF) (FB) (RNP 1.00) | 319.34 / 9.00 | 3500 | LNAV: PAYOR |
| VATIC (IAF) | TOYUP (NOPT) (TF) (FB) (RNP 1.00) | 139.04 / 9.00 | 3500 | |
| TOYUP (IF/IAF) | COCAT (TF) (FB) (RNP 1.00) | 229.19 / 6.20 | 2100 | |
| COCAT (FAF) | PAYOR (MAP) (TF) (FO) (RNP 0.30) | 229.00 / 4.73 | | |
| PAYOR (MAP) | 1600 MSL | 229.00 | 1600 | CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3500 DIRECT TOYUP AND HOLD. |
| 1600 MSL | TOYUP (DF) (FO) (RNP 1.00) | | 3500 | |

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 859 TREE 644459N/1580212W
CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
CHART GALENA AWOS-3.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE
OFFSET 19.83 DEGREES
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE TOYUP, LT, 229.19 INBOUND, 3500 FT. IN LIEU OF PT (IAF)
3. FAC: 229.00 FAF: COCAT DIST FAF TO MAP: 4.73 THLD: 5.19
4. MIN. ALT: **TOYUP 3500, COCAT 2100**
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: 13E EPOCH YEAR: 2020

MINIMUMS

| | | | | | | | | | | | | | | | |
|---|--|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-----|---------|
| 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 |
| LNAV MDA | 1220 | 1 | 814 | 1220 | 1 1/4 | 814 | 1220 | 2 1/2 | 814 | 1220 | 2 1/2 | 814 | | | |
| CIRCLING | 1280 | 1 1/4 | 874 | 1380 | 1 1/2 | 974 | 1420 | 3 | 1014 | 1620 | 3 | 1214 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: USE GALENA ALTIMETER SETTING.
CHART NOTE: PROCEDURE NA AT NIGHT.



| | | | | |
|-------------------------------------|--|-------------------------------------|--|---|
| CITY AND STATE NULATO, AK | ELEVATION: 406 TDZE: 406 AIRPORT NAME: NULATO | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 20 AMDT: ORIG-B DATED 09/15/2016 |
|-------------------------------------|--|-------------------------------------|--|---|

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.

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 139/30 CW 319/30 (NOPT) | 139/10 CW 319/10 | 5000 |
| 2. | 139/10 CW 319/10 | TOYUP (IF/IAF) (FB) | 3500 |
| 3. | 319/30 CW 049/30 | MASNS (IAF) (FB) | 5000 |
| 4. | 049/30 CW 139/30 | VATIC (IAF) (FB) | 5000 |



| | | | | | |
|-------------------------------------|--|-----------|-------------------------------------|--|-------------------------------|
| CITY AND STATE NULATO, AK | ELEVATION: 406 AIRPORT NAME: NULATO | TDZE: 406 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 20 |
| | | | | | AMDT: ORIG-B |
| | | | | | DATED: 09/15/2016 |

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.

(This area is intentionally left blank for the instrument approach procedure.)



| | | | | | |
|-------------------------------------|--|-----------|-------------------------------------|--|-------------------------------|
| CITY AND STATE NULATO, AK | ELEVATION: 406 AIRPORT NAME: NULATO | TDZE: 406 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 JANUARY 2017 | SUP: RNAV (GPS) RWY 20 |
| | | | | | AMDT: ORIG-B |
| | | | | | DATED: 09/15/2016 |

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|----------------|-----------------------|----------------|
| NULATO, AK | NULATO | 5 JANUARY 2017 | 1 |

TAKEOFF MINIMUMS:

RWY 3, 600-2 3/4 WITH MINIMUM CLIMB OF 245 FT PER NM TO 1200 OR 1200-2 1/2 FOR VCOA.

RWY 21, STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 3, CLIMB HEADING 029.00 TO 1600 BEFORE TURNING LEFT.

RWY 21, CLIMB HEADING 209.02 TO 1500 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NULATO AIRPORT AT OR ABOVE 1500 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 3, TREES BEGINNING 16 FT FROM DER, 237 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/459 FT MSL.

TREES BEGINNING 18 FT FROM DER, 379 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/459 FT MSL.

TREES BEGINNING 738 FT FROM DER, 54 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/559 FT MSL.

TREES BEGINNING 1673 FT FROM DER, 179 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/559 FT MSL.

TREES BEGINNING 2402 FT FROM DER, 93 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/615 FT MSL.

TREES BEGINNING 4969 FT FROM DER, 293 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/659 FT MSL.

TREES BEGINNING 6071 FT FROM DER, 263 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/759 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 637 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/859 FT MSL.

TREES BEGINNING 1.4 NM FROM DER, 1026 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/959 FT MSL.

TREES BEGINNING 2 NM FROM DER, 785 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/959 FT MSL.

TREE 2.2 NM FROM DER, 4145 FT LEFT OF CENTERLINE, 60 FT AGL/859 FT MSL.

NOTE: RWY 21, TREES, BEGINNING 15 FT FROM DER, 118 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/459 FT MSL.

CONTROLLING OBSTACLES:

RWY 3: 959 MSL TREE 644642.25N/1580053.40W (CLIMB GRADIENT, CLIMB ALTITUDE).

OBSTACLE MANDATING RWY 3 ODP ROUTE DEVELOPMENT: 1299 MSL AAO 644737.72N/1580042.89W.

OBSTACLE MANDATING RWY 21 ODP ROUTE DEVELOPMENT: 1499 MSL AAO 644144.23N/1582138.27W.

RWY 3 (VCOA): 1850 MSL AAO 644721.65N/1581959.70W.

QUALITY
2
CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 |
| NULATO, AK | NULATO | 5 JANUARY 2017 | 1 |

REMARKS:

FLIGHT INSPECTED BY:

KIM M BROWN

| | | |
|---|-----------------------|--------------|
| <i>Digitally signed by</i> PATRICK J MULQUEEN | OFFICE SYMBOL: | DATE: |
| Nov 15, 2016 | FICO | 11/08/2016 |

DEVELOPED BY:

MIKE MELSSSEN

| | | |
|---|-----------------------|--------------|
| <i>Digitally signed by</i> PATRICK J MULQUEEN | OFFICE SYMBOL: | DATE: |
| Nov 14, 2016 | AJV-5413 | 9/22/16 |

APPROVED BY:

LONNIE EVERHART

| | | |
|---|-----------------------|--------------|
| <i>Digitally signed by</i> PATRICK J MULQUEEN | OFFICE SYMBOL: | DATE: |
| Nov 14, 2016 | AJV-5430 | |

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:

WFPT, ZAN, APT MGR, ALASKA DIVISION OF STATEWIDE AVIATION

CHANGES - REASONS:

1. CHANGED AIRPORT MAG/VAR AND UPDATED RUNWAY NUMBERS FROM 2/20 TO 3/21. MAG/VAR UPDATED FROM 18E TO 13E.
2. CHANGED FROM RWY 2 TAKEOFF MINIMUMS FROM: "700-2 3/4 W/MIN. CLIMB OF 356 FEET PER NM TO 1300 OR 1000-3 FOR CLIMB IN VISUAL CONDITIONS" TO "RWY 3, 600-2 3/4 WITH MINIMUM CLIMB OF 245 FT PER NM TO 1200 OR 1200-2 1/2 FOR VCOA". NEW OBSTACLE EVALUATION DEMONSTRATED LOWER CLIMB GRADIENT CAN CLEAR OBSTACLES.
3. CHANGED FROM "RWY 2 DEPARTURE PROCEDURE, CLIMB VIA HEADING 024 TO 1300 BEFORE PROCEEDING ON COURSE OR CLIMB IN VISUAL CONDITIONS TO CROSS NULATO AIRPORT AT OR ABOVE 1300 BEFORE PROCEEDING ON COURSE" TO: RWY 3, CLIMB HEADING 029.00 TO 1600 BEFORE TURNING LEFT. NEW OBSTACLE EVALUATION MANDATED AN UPDATED ROUTING.
4. CHANGED FROM "RWY 20, CLIMB VIA HEADING 204 TO 1500 BEFORE PROCEEDING ON COURSE" TO: RWY 21, CLIMB HEADING 209.02 TO 1500 BEFORE PROCEEDING ON COURSE. UPDATED DUE TO MAG/VAR UPDATE.
5. UPDATED VCOA TO: "OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NULATO AIRPORT AT OR ABOVE 1500 BEFORE PROCEEDING ON COURSE". UPDATED REQUIREMENT PER 8260.46F.
6. UPDATED TAKEOFF OBSTACLE NOTES. NEW OBSTACLES EVALUATION.



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|------------------------------------|-------------------------|-----------------------|----------------|
| FAYETTEVILLE/SPRINGDALE/ROGERS, AR | NORTHWEST ARKANSAS RGNL | 5 JANUARY 2017 | 4 |

TAKEOFF MINIMUMS:

RWY 16, 34: STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 34: CLIMB HEADING 338.74 TO 1800 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: 1735 FT MSL TOWER 361901.30N/0942104.10W, 1724 FT MSL TOWER 361903.00N/0942107.00W.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

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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 |
| FAYETTEVILLE/SPRINGDALE/ROGERS, AR | NORTHWEST ARKANSAS RGNL | 5 JANUARY 2017 | 4 |

REMARKS:

FLIGHT INSPECTED BY:

MARK LILLEY

Digitally signed by
STEVEN A VARGAS
Oct 26, 2016

OFFICE SYMBOL:
FICO

DATE:
10/21/2016

DEVELOPED BY:

JEFFREY ROBINSON

Digitally signed by
JEFFREY ROBINSON
Sep 06, 2016

OFFICE SYMBOL:
AJV-5421

DATE:
08/22/2016

APPROVED BY:

TONY LAWSON

Digitally signed by
STEVEN A VARGAS
Oct 26, 2016

OFFICE SYMBOL:
AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:

XNA ATCT, AMGR, ST AV DIR, RZC APP CON, ZME

CHANGES - REASONS:

1. REMOVED ALL REFERENCES TO RWY 17-35 DUE TO RWY CLOSURE/CONVERSION TO TAXIWAY.
2. CHANGED RWY 34 TAKEOFF MINS FROM "500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 227 FT PER NM TO 1900" TO "STANDARD" BECAUSE THE ICA (EXTENDED) IS CLEAR AND DIVERSE AREA A PENETRATIONS ARE OUTSIDE THE ICA (EXTENDED) (FAAO 8260.46F, TABLE 2-1-1, SITUATION 3, ACTION B1).
3. ADDED RWY 34 TEXTUAL DEPARTURE PROCEDURE TO MITIGATE DIVERSE AREA A OBSTACLE PENETRATIONS.
4. REMOVED TAKEOFF OBSTACLE NOTES BECAUSE RWY 16-34 ICAS ARE CLEAR.
5. OBSTACLES MANDATING ODP ROUTE DEVELOPMENT UPDATED PER CURRENT OBSTACLE DATA.



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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------------------------|--------------------------------|-----------------------|----------|
| SARAH INT/I-DZG 14.20 DME/RADAR (IF) | TAILR INT/I-DZG 7.16 DME/RADAR | 082.48 / 7.04 (I-DZG) | 7000 |

ILS: DA
LOC: 5.01 NM AFTER TAILR INT/I-DZG 7.16 DME/RADAR

CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 11000 ON HEADING 193 AND ON DVV VORTAC R-202 TO SIGNE INT/BJC 26.67 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA (DO NOT CHART): CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 11000 DIRECT DEN VOR/DME AND ON (SEE FORM 8260-10)

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 146.80 INBOUND.
CHART FAS OBST: 5392 POLE 395023N/1044447W
FAS OBST: 5489 AAO 395017N/1044803W
CHART LOC RWY 8.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT SARAH INT/I-DZG 14.20 DME/RADAR
3. FAC: 082.48 FAF: TAILR INT/I-DZG 7.16 DME/RADAR DIST FAF TO MAP: 5.01 THLD: 5.01
4. MIN. ALT: SARAH 9000, TAILR 7000, SUNKE/I-DZG 3.25 DME 5740*
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: **1042**
6. MIN GS INCPT: 7000 GS ALT AT: TAILR 7000 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 55.1
8. MSA FROM: DEN VOR/DME 9200

MAG VAR: 8E 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 07 | 5552 | 1800 | 200 | 5552 | 1800 | 200 | 5552 | 1800 | 200 | 5552 | 1800 | 200 | | | |
| S-LOC 07 | 5740 | 2400 | 388 | 5740 | 2400 | 388 | 5740 | 3500 | 388 | 5740 | 3500 | 388 | | | |

SUNKE FIX MINIMUMS

| | | | | | | | | | | | | | | | |
|----------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|--|--|--|
| S-LOC 07 | 5660 | 2400 | 308 | 5660 | 2400 | 308 | 5660 | 2400 | 308 | 5660 | 2400 | 308 | | | |
|----------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|--|--|--|

NOTES:
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 8.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE SUNKE FIX CAT C/D VISIBILITY TO RVR 4500.

| | | | | |
|-------------------------------------|---|--------------------------------------|--|--|
| CITY AND STATE DENVER, CO | ELEVATION: 5434 TDZE: 5352 AIRPORT NAME: DENVER INTL | FACILITY IDENTIFIER: I-DZG | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 3B 5 JANUARY 2017 | SUP: AMDT: 3A 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.

MISSED APPROACH INSTRUCTIONS, (CONT.):
 DEN VOR/DME R-205 TO SIGNE INT/DEN 22.26 DME AND HOLD, NE, 205.03 INBOUND.



| | | | | |
|-------------------------------------|--|--------------------------------------|--|--------------------------|
| CITY AND STATE DENVER, CO | ELEVATION: 5434 TDZE: 5352 AIRPORT NAME: DENVER INTL | FACILITY IDENTIFIER: I-DZG | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 3B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 3A |
| | | | | DATED: 12/11/2014 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: 7.96 NM AFTER SELMN INT/I-AMP 9.88 DME OR AT I-AMP 1.92 DME FIX |
|------------------------------------|---------------------------|-----------------------|----------|--|
| PIE VORTAC | LAGOO INT/I-AMP 13.00 DME | 142.02 / 10.59 | 2600 | CLIMB TO 500 THEN CLIMBING LEFT TURN TO 3000 DIRECT PIE VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000 (TACAN AIRCRAFT CLIMB TO 500 THEN CLIMBING LEFT TURN TO 4000 DIRECT PIE VORTAC THEN ON PIE VORTAC R-276 TO LAFAL/PIE 8.00 DME AND HOLD W, RT, 096.00 INBOUND). (SEE FORM 8260-10) |
| LAGOO INT/I-AMP 13.00 DME (IF/IAF) | SELMN INT/I-AMP 9.88 DME | 006.73 / 3.12 (I-AMP) | 2600 | |

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 096.00 INBOUND.
CHART FAS OBST: 149 TOWER 275640N/0823218W
CHART VDP AT 2.92 DME*
DISTANCE VDP TO THLD 1.00 NM.
*LOC ONLY.
CHART CIRCLING ICON.
CHART KMCF IN PLAN AND PROFILE VIEWS.

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD S LAGOO, RT, 006.73 INBOUND, 2600 FT. IN LIEU OF PT (IAF)
- FAC: 006.73 FAF: SELMN INT/I-AMP 9.88 DME DIST FAF TO MAP: 7.96 THLD: 7.96
- MIN. ALT: LAGOO 2600, SELMN 2600, ZERUR INT/I-AMP 3.42 DME 540*
- DIST TO THLD FROM OM: MM: IM: 832 150 HAT: 1830 100 HAT: 870 GS ANT: 1036
- MIN GS INCPT: 2600 GS ALT AT: SELMN 2600 OM: MM: IM: 109
- GS ANGLE: 3.00 TCH: 54.4
- MSA FROM: PIE VORTAC 2700

MAG VAR: 5W EPOCH YEAR: 2010

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 01L | 211 | 1800 | 200 | 211 | 1800 | 200 | 211 | 1800 | 200 | 211 | 1800 | 200 | 211 | 1800 | 200 |
| S-LOC 01L | 400 | 2400 | 389 | 400 | 2400 | 389 | 400 | 4000 | 389 | 400 | 4000 | 389 | 400 | 4000 | 389 |
| CIRCLING | 560 | 1 | 534 | 560 | 1 | 534 | 680 | 1 3/4 | 654 | 980 | 3 | 954 | 980 | 3 | 954 |

NOTES:
SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 1L: CAT A, B, C, D, RA
155, RVR 1400, HAT 150, DA 161 MSL.
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 1L: CAT A, B, C, D, RA
105, RVR 1200, HAT 100, DA 111 MSL.
(CONTINUED ON PAGE 2)

CAT C 700-2, CAT D, E 1000-3
@ CAT D, E 1000-3



| | | | | |
|-----------------------------|---|-------------------------------|--|---------------------------------------|
| CITY AND STATE TAMPA, FL | ELEVATION: 26 TDZE: 11 AIRPORT NAME: TAMPA INTL | FACILITY IDENTIFIER: I-AMP | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 1L, AMDT 18; ILS RWY 1L (SA CAT I), ILS RWY 1L (CAT II), ILS RWY 1L (CAT III) 5 JANUARY 2017 | SUP: AMDT: 17A DATED 08/20/2015 |
|-----------------------------|---|-------------------------------|--|---------------------------------------|

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

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MISSED APPROACH INSTRUCTIONS, (CONT.):

ALTERNATE MA (DO NOT CHART): CLIMB TO 500 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 330 (RADAR REQUIRED).

NOTES, (CONT.):

CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 1L: CAT III CAT A,B,C,D, RVR 600.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

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

CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

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

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 1L CAT E VISIBILITY TO RVR 4000 AND S-LOC 1L CATS C/D/E VISIBILITY TO RVR 6000.

CHART PLANVIEW NOTE: DME REQUIRED FOR HOLDING AT LAGOO INT.

CHART PLANVIEW NOTE: DME AND RADAR REQUIRED.



| | | | | |
|------------------------------------|--|--------------------------------------|--|--------------------------|
| CITY AND STATE TAMPA, FL | ELEVATION: 26 TDZE: 11 AIRPORT NAME: TAMPA INTL | FACILITY IDENTIFIER: I-AMP | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 1L, AMDT 18; ILS RWY 1L (SA CAT I), ILS RWY 1L (CAT II), ILS RWY 1L (CAT III) 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 17A |
| | | | | DATED: 08/20/2015 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: I-JRT 1.99 DME FIX |
|---|--------------------------------|-----------------------|----------|--|
| PIE VORTAC | MERRA/I-JRT 15.62 DME/RADAR | 028.07 / 20.39 | 3000 | CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT PIE VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000 (TACAN AIRCRAFT CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 4000 DIRECT PIE VORTAC THEN ON PIE VORTAC R-276 TO LAFAL/PIE 8.00 DME AND HOLD W, RT, 096.00 INBOUND). (SEE FORM 8260-10) |
| MERRA/I-JRT 15.62 DME/RADAR (IF/IAF) | FADDI/I-JRT 11.77 DME/RADAR | 186.73 / 3.85 (I-JRT) | 3000 | |
| FADDI/I-JRT 11.77 DME/RADAR | JMBOB/I-JRT 8.03 DME/RADAR | 186.73 / 3.74 (I-JRT) | 2000 | |

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 096.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S
CARIR INT/SRQ 16.76 DME, RT, 007.35 INBOUND.
CHART FAS OBST: 145 TOWER 280055N/0823217W
CHART IN PLANVIEW: CARIR INT/SRQ 16.76 DME.
CHART CIRCLING ICON.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N MERRA, RT, 186.73 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 186.73 FAF: JMBOB/I-JRT 8.03 DME/RADAR DIST FAF TO MAP: THLD: 6.04
4. MIN. ALT: MERRA 3000, FADDI 3000, JMBOB 2000, ZESHY/I-JRT 3.39 DME 520*
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1051
6. MIN GS INCPT: 2000 GS ALT AT: JMBOB 2000 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 54.4
8. MSA FROM: PIE VORTAC 2700

MAG VAR: **5W** EPOCH YEAR: **2010**

MINIMUMS

| | | | | | | | | | | | | | | | |
|---|-----------------------|------------------------|------------------------|--------|------|----------|--------|-------|----------|--------|------|----------|--------|------|---------|
| TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: <u>N A</u> | ILS: STANDARD # | LOC: STANDARD @ | | | | | | | | | | | | |
| CATEGORY <u>=====</u> > | 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 19R** | 221 | 2400 | 200 | 221 | 2400 | 200 | 221 | 2400 | 200 | 221 | 2400 | 200 | 221 | 2400 | 200 |
| S-LOC 19R | 400 | 2400 | 379 | 400 | 2400 | 379 | 400 | 3500 | 379 | 400 | 3500 | 379 | 400 | 3500 | 379 |
| CIRCLING | 560 | 1 | 534 | 560 | 1 | 534 | 680 | 1 3/4 | 654 | 980 | 3 | 954 | 980 | 3 | 954 |

NOTES:
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: DME REQUIRED.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.
(CONTINUED ON PAGE 2)

CAT C 700-2, CAT D, E 1000-3
@ CAT D, E 1000-3



| | | | | |
|------------------------------------|--|--------------------------------------|--|--|
| CITY AND STATE TAMPA, FL | ELEVATION: 26 TDZE: 21 AIRPORT NAME: TAMPA INTL | FACILITY IDENTIFIER: I-JRT | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 19R, AMDT 6 5 JANUARY 2017 | SUP: AMDT: 5C DATED 06/23/2016 |
|------------------------------------|--|--------------------------------------|--|--|

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

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MISSED APPROACH INSTRUCTIONS, (CONT.):

ALTERNATE MA (DO NOT CHART): CLIMB TO 3000 ON SRQ VOR/DME R-007.35 TO CARIR INT/SRQ 16.76 DME AND HOLD (TACAN AIRCRAFT PROCEDURE NA EXCEPT FOR AIRCRAFT EQUIPPED WITH SUITABLE RNAV SYSTEM WITH GPS).

NOTES, (CONT.):

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

***LOC ONLY**

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 19R CAT E VISIBILITY TO RVR 4000 AND S-LOC 19R CATS C/D/E VISIBILITY TO RVR 5500.



| | | | | |
|------------------------------------|--|--------------------------------------|--|--------------------------|
| CITY AND STATE TAMPA, FL | ELEVATION: 26 TDZE: 21 AIRPORT NAME: TAMPA INTL | FACILITY IDENTIFIER: I-JRT | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 19R, AMDT 6 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 5C |
| | | | | DATED: 06/23/2016 |

**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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|--------------------------------------|-----------------------------|-----------------------|----------|--|
| PBI VORTAC | WILBA/I-PBI 14.69 DME/RADAR | 276.32 / 14.06 | 3000 | ILS: DA LOC: 6.07 NM AFTER ZISUR/I-PBI 7.68 DME/RADAR OR AT I-PBI 1.62 DME FIX |
| GULLO (IAF) | WILBA (NOPT) (FB) | 099.54 / 7.00 | 3000 | CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2000 ON HEADING 240 AND PBI VORTAC R-189 TO LANCH INT/PBI 10.00 DME AND HOLD, OR AS DIRECTED BY ATC. |
| WILBA/I-PBI 14.06 DME/RADAR (IF/IAF) | ZISUR/I-PBI 7.68 DME/RADAR | 098.77 / 7.00 (I-PBI) | 2000 | |

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 008.62 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S MORG INT/TRV 45.70 DME, RT, 347.05 INBOUND.
CHART FAS OBST: 116 TREE 264111N/0800722W
CHART IN PLANVIEW: MORG INT/TRV 45.70 DME.
CHART CIRCLING ICON.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W WILBA, LT, 098.77 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 098.77 FAF: ZISUR/I-PBI 7.68 DME/RADAR DIST FAF TO MAP: 6.07 THLD: 6.07
4. MIN. ALT: WILBA 3000, ZISUR 2000, PASTE/I-PBI 2.92 DME/RADAR 500*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 997
6. MIN GS INCPT: 2000 GS ALT AT: ZISUR 2000 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 51.7
8. MSA FROM: PBI VORTAC 2600

MAG VAR: 6W EPOCH YEAR: 2010

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 10L** | 216 | 2400 | 200 | 216 | 2400 | 200 | 216 | 2400 | 200 | 216 | 2400 | 200 | | | |
| S-LOC 10L | 500 | 2400 | 484 | 500 | 2400 | 484 | 500 | 5000 | 484 | 500 | 5000 | 484 | | | |
| CIRCLING | 560 | 1 | 540 | 560 | 1 | 540 | 680 | 1 3/4 | 660 | 780 | 2 1/2 | 760 | | | |

PASTE FIX MINIMUMS

| | | | | | | | | | | | | | | | |
|-----------|-----|------|-----|-----|------|-----|-----|-------|-----|-----|-------|-----|--|--|--|
| S-LOC 10L | 380 | 2400 | 364 | 380 | 2400 | 364 | 380 | 3500 | 364 | 380 | 3500 | 364 | | | |
| CIRCLING | 560 | 1 | 540 | 560 | 1 | 540 | 680 | 1 3/4 | 660 | 780 | 2 1/2 | 760 | | | |

NOTES:

CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: DME OR RADAR REQUIRED.
CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
(CONTINUED ON PAGE 2)

CAT C 700-2, CAT D 800-2 1/2
@ CAT D 800-2 1/2



| | | | | |
|---------------------------------------|--|-------------------------------|---|---------------------------------------|
| CITY AND STATE WEST PALM BEACH, FL | ELEVATION: 20 TDZE: 16 AIRPORT NAME: PALM BEACH INTL | FACILITY IDENTIFIER: I-PBI | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 10L, AMDT 27 5 JANUARY 2017 | SUP: AMDT: 26B DATED 05/29/2014 |
|---------------------------------------|--|-------------------------------|---|---------------------------------------|

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.

MISSED APPROACH INSTRUCTIONS, (CONT.):
VORTAC R-164 TO MORGA INT/TRV 45.70 DME AND HOLD.

NOTES, (CONT.):
***LOC ONLY**

CHART PLANVIEW NOTE ADJACENT TO GULLO (IAF): GPS REQUIRED.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 10L CAT C/D VISIBILITY TO 1 3/8 SM AND PASTE FIX MINIMUMS S-LOC 10L CAT C/D VISIBILITY TO RVR 5500.



| | | | | |
|--|---|--------------------------------------|--|--------------------------|
| CITY AND STATE WEST PALM BEACH, FL | ELEVATION: 20 TDZE: 16 AIRPORT NAME: PALM BEACH INTL | FACILITY IDENTIFIER: I-PBI | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 10L, AMDT 27 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 26B |
| | | | | DATED: 05/29/2014 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|--|---------------------|----------|---|
| CUYAT (IF/IAF) | HOREB (TF) (FB) (RNP 1.00) | 155.84 / 7.00 | 1800 | LPV: DA LNAV/VNAV: DA LNAV: RW15 |
| HOREB (FAF) | ULIRY/2.20 NM TO RW15 (TF) (FB) (RNP 0.30) | 155.87 / 2.66 | | |
| ULIRY/2.20 NM TO RW15 | RW15 (MAP) (TF) (FO) (RNP 0.30) | 155.87 / 2.20 | | CLIMB TO 2300 DIRECT HISEB AND ON TRACK 209.37 TO AYS VORTAC AND HOLD. |
| RW15 (MAP) | 452 MSL | 155.87 | | |
| 452 MSL | HISEB (DF) (FB) (RNP 1.00) | | | |
| HISEB | AYS VORTAC (TF) (FO) (RNP 1.00) | 209.37 / 12.46 | 2300 | ADDITIONAL FLIGHT DATA: HOLD W, LT, 067.77 INBOUND. CHART FAS OBST: 310 POLE 313359N/0823058W CHART: 600 TOWER 313623N/0823238W DISTANCE TO THLD FROM 252 HAT: 0.63 NM. WAAS CHANNEL # 45537 REFERENCE PATH ID: W15A CHART CIRCLING ICON. LTP HAE: 32.9 M |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW CUYAT, RT, 155.84 INBOUND, 2300 FT. IN LIEU OF PT (IAF)
- FAC: 155.87 FAF: HOREB DIST FAF TO MAP: 4.86 THLD: 4.86
- MIN. ALT: CUYAT 2300, HOREB 1800, ULIRY/2.20 NM TO RW15 940*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 1800 GS ALT AT: HOREB 1800 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 51.0 34:1 IS NOT CLEAR
- MSA FROM:

MAG VAR: **5W** EPOCH YEAR: **2005**

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 | 452 | 1 | 252 | 452 | 1 | 252 | 452 | 1 | 252 | 452 | 1 | 252 | | | |
| LNAV/VNAV DA | 468 | 1 | 268 | 468 | 1 | 268 | 468 | 1 | 268 | 468 | 1 | 268 | | | |
| LNAV MDA | 560 | 1 | 360 | 560 | 1 | 360 | 560 | 1 | 360 | 560 | 1 | 360 | | | |
| CIRCLING | 720 | 1 | 520 | 720 | 1 | 520 | 1000 | 2 1/4 | 800 | 1000 | 2 1/2 | 800 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: BARO-VNAV NA WHEN USING VIDALIA ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT C 800-2 1/4, CAT D 800-2 1/2

QUALITY
24
CHECKED

| | | | | |
|-----------------------------------|--|-------------------------------------|--|---|
| CITY AND STATE ALMA, GA | ELEVATION: 200 TDZE: 200 AIRPORT NAME: BACON COUNTY | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 2A 5 JANUARY 2017 | SUP: AMDT: 2 DATED 04/03/2014 |
|-----------------------------------|--|-------------------------------------|--|---|

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.):

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE VIDALIA ALTIMETER SETTING: INCREASE

LPV DA TO 555 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 571 AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 120 FEET AND VISIBILITY LNAV CATS C AND D 3/8 SM, CIRCLING CATS C AND D 1/2 SM.

CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

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

TAA

| | <u>FROM</u> | <u>TO</u> | <u>ALT</u> |
|----|-------------------------|---------------------|------------|
| 1. | 246/30 CW 066/30 (NOPT) | CUYAT (IF/IAF) (FB) | 2300 |
| 2. | 066/30 CW 246/30 | CUYAT (IAF) (FO) | 2300 |

QUALITY
24
CHECKED

| | | | | | | | |
|--------------------------------|-----------------------------------|-----------|----------------------------------|--|------|--------|------------|
| CITY AND STATE ALMA, GA | ELEVATION: 200 | TDZE: 200 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 2A 5 JANUARY 2017 | SUP: | 24 | |
| | AIRPORT NAME: BACON COUNTY | | | | | AMDT: | 2 |
| | | | | | | DATED: | 04/03/2014 |

**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 | KAMG |
| RUNWAY | RW15 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W15A |
| LTP/FTP LATITUDE | 313231.4220N |
| LTP/FTP LONGITUDE | 0823037.6425W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00329 |
| FPAP LATITUDE | 313113.4000N |
| FPAP LONGITUDE | 0822946.9300W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00051.0 |
| 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 F7B2423C

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K7 |
| LTP ORTHOMETRIC HEIGHT | +00609 |
| FPAP ORTHOMETRIC HEIGHT | +00609 |

QUALITY
24
CHECKED

| | | | | | | | |
|--------------------------------|-----------------------------------|-----------|----------------------------------|--|------|--------|------------|
| CITY AND STATE ALMA, GA | ELEVATION: 200 | TDZE: 200 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 2A 5 JANUARY 2017 | SUP: | 24 | |
| | AIRPORT NAME: BACON COUNTY | | | | | AMDT: | 2 |
| | | | | | | DATED: | 04/03/2014 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|--|---------------------|----------|--|
| JEKEK (IF/IAF) | HISEB (TF) (FB) (RNP 1.00) | 335.95 / 7.00 | 1800 | LPV: DA LNAV/VNAV: DA LNAV: RW33 CLIMBING LEFT TURN TO 2300 DIRECT AYS VORTAC AND HOLD. |
| HISEB (FAF) | HOXOX/1.80 NM TO RW33 (TF) (FB) (RNP 0.30) | 335.92 / 3.07 | | |
| HOXOX/1.80 NM TO RW33 | RW33 (MAP) (TF) (FO) (RNP 0.30) | 335.92 / 1.80 | | |
| RW33 (MAP) | 465 MSL | 335.92 | | ADDITIONAL FLIGHT DATA: HOLD W, LT, 067.77 INBOUND. CHART FAS OBST: 298 TREE 313045N/0823014W DISTANCE TO THLD FROM 269 HAT: 0.68 NM. WAAS CHANNEL # 70635 REFERENCE PATH ID: W33A CHART CIRCLING ICON. LTP HAE: 30 M |
| 465 MSL | AYS VORTAC (DF) (FO) (RNP 1.00) | | 2300 | |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE JEKEK, RT, 335.95 INBOUND, 2300 FT. IN LIEU OF PT (IAF)
- FAC: 335.92 FAF: HISEB DIST FAF TO MAP: 4.87 THLD: 4.87
- MIN. ALT: **JEKEK 2300, HISEB 1800, HOXOX/1.80 NM TO RW33 820***
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 1800 GS ALT AT: HISEB 1800 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 59.0 34:1 IS NOT CLEAR
- MSA FROM:

MAG VAR: **5W** EPOCH YEAR: **2005**

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 | 472 | 1 | 276 | 472 | 1 | 276 | 472 | 1 | 276 | 472 | 1 | 276 | | | |
| LNAV/VNAV DA | 465 | 1 | 269 | 465 | 1 | 269 | 465 | 1 | 269 | 465 | 1 | 269 | | | |
| LNAV MDA | 560 | 1 | 364 | 560 | 1 | 364 | 560 | 1 | 364 | 560 | 1 | 364 | | | |
| CIRCLING | 720 | 1 | 520 | 720 | 1 | 520 | 1000 | 2 1/4 | 800 | 1000 | 2 1/2 | 800 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: BARO-VNAV NA WHEN USING VIDALIA ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT C 800-2 1/4, CAT D 800-2 1/2

QUALITY
24
CHECKED

| | | | | |
|-----------------------------------|--|-------------------------------------|---|---|
| CITY AND STATE ALMA, GA | ELEVATION: 200 TDZE: 196 AIRPORT NAME: BACON COUNTY | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1A 5 JANUARY 2017 | SUP: AMDT: 1 DATED 04/03/2014 |
|-----------------------------------|--|-------------------------------------|---|---|

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

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NOTES, (CONT.):

***LNAV ONLY**

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE VIDALIA ALTIMETER SETTING: INCREASE

LPV DA TO 575 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE LNAV/VNAV DA TO 568 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 120 FEET AND VISIBILITY LNAV CATS C AND D 3/8 SM, AND CIRCLING CATS C AND D 1/2 SM.

CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

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

TAA

| | <u>FROM</u> | <u>TO</u> | <u>ALT</u> |
|----|-------------------------|---------------------|------------|
| 1. | 246/30 CW 066/30 (NOPT) | JEKEK (IF/IAF) (FB) | 2300 |
| 2. | 066/30 CW 246/30 | JEKEK (IAF) (FO) | 2300 |

QUALITY
24
CHECKED

| | | | | | |
|--------------------------------|-----------------------------------|-----------|----------------------------------|--|-------------------|
| CITY AND STATE ALMA, GA | ELEVATION: 200 | TDZE: 196 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1A 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: BACON COUNTY | | | | AMDT: 1 |
| | | | | | DATED: 04/03/2014 |

**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 | KAMG |
| RUNWAY | RW33 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W33A |
| LTP/FTP LATITUDE | 313148.1940N |
| LTP/FTP LONGITUDE | 0823009.5425W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00300 |
| FPAP LATITUDE | 313306.2100N |
| FPAP LONGITUDE | 0823100.2500W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00059.0 |
| 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 A675D625

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K7 |
| LTP ORTHOMETRIC HEIGHT | +00580 |
| FPAP ORTHOMETRIC HEIGHT | +00580 |

QUALITY
24
CHECKED

| | | | | |
|-----------------------------------|--|-------------------------------------|---|--------------------------|
| CITY AND STATE ALMA, GA | ELEVATION: 200 TDZE: 196 AIRPORT NAME: BACON COUNTY | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1A 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1 |
| | | | | DATED: 04/03/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - 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 | MAP: RW31 | | |
|------|----|---------------------|----------|--|--|--|
| | | | | CLIMBING LEFT TURN TO 2900 DIRECT PZD VOR/DME AND HOLD, CONTINUE CLIMB IN HOLD TO 2900. | | |
| | | | | ADDITIONAL FLIGHT DATA: CHART FAS OBST: 439 TREE 314413N/0842412W PZD VOR/DME TO RW31: 3.04/40 | | |

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
2. HOLD SE PZD VOR/DME, RT, 311.13 INBOUND, 2900 FT. IN LIEU OF PT (IAF)
3. FAC 311.13 FAF PZD VOR/DME _____ DIST FAF TO MAP _____ THLD 7.97
4. MIN. ALT PZD VOR/DME 2900, 4.97 NM TO RW31 1900
8. MSA FROM: RW31 2900

MAG VAR: 2W EPOCH YEAR: 1995

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 | |
| LNAV MDA | 760 | 1 | 438 | 760 | 1 | 438 | | NA | | | NA | | | | | |
| CIRCLING | 960 | 1 | 628 | 960 | 1 | 628 | | NA | | | NA | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: USE ALBANY ALTIMETER SETTING.



| | | | | |
|------------------------------|------------------------------|------------------------------|---|-----------------|
| CITY AND STATE DAWSON, GA | ELEVATION: 332 TDZE: 322 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG-C 5 JANUARY 2017 | SUP GPS RWY 31 |
| | AIRPORT NAME: DAWSON MUNI | | | AMDT ORIG-B |
| | | | | DATE 07/25/2013 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR/DME 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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |

MAP: PZD R-311/7.97 DME FIX

CLIMBING LEFT TURN TO 2900 DIRECT PZD VOR/DME AND HOLD, CONTINUE CLIMB IN HOLD TO 2900.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 311.13 INBOUND.
CHART FAS OBST: 460 TREE 314331N/0842525W
FROM PECAN (PZD) VOR/DME TO RW31: 3.04/40.

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
2. **HOLD SE PECAN VOR/DME, RT, 311.13 INBOUND, 2900 FT. IN LIEU OF PT (IAF)**
3. FAC 311.13 FAF PZD VOR/DME DIST FAF TO MAP _____ THLD 7.97
4. MIN. ALT PZD VOR/DME 2900, PZD R-313/3.00 DME 1900
8. MSA FROM: PZD VOR/DME 2900

MAG VAR: **2W** EPOCH YEAR: **1995**

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-31 | 780 | 1 | 458 | 780 | 1 | 458 | | NA | | | NA | | | | | |
| CIRCLING | 960 | 1 | 628 | 960 | 1 | 628 | | NA | | | NA | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.

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

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

CHART NOTE: USE ALBANY ALTIMETER SETTING.

| | | | | |
|-------------------------------------|--|------------------------------------|---|------------------------|
| CITY AND STATE DAWSON, GA | ELEVATION: 332 TDZE: 322 | FACILITY IDENTIFIER: PZD | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 31, ORIG-C 5 JANUARY 2017 | SUP |
| | AIRPORT NAME: DAWSON MUNI | | | AMDT ORIG-B |
| | | | | DATE 07/25/2013 |



**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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|----------------|-------------------|---------------------|----------|
| ATUNE (IAF) | LETBE (NOPT) (FB) | 112.00 / 6.54 | 3500 |
| METAE (IAF) | LETBE (NOPT) (FB) | 295.53 / 6.22 | 3500 |
| LETBE (IF/IAF) | PIKIE (FB) | 022.44 / 5.34 | 3000 |
| PIKIE (FAF) | RW02 (MAP) (FO) | 022.46 / 5.48 | |
| RW02 (MAP) | 1176 MSL | 022.46 | |
| 1176 MSL | LETBE (FO) | | 3500 |

LNAV: RW02

CLIMBING RIGHT TURN TO 3500 DIRECT LETBE AND HOLD.

**ADDITIONAL FLIGHT DATA:
FAS OBST: 1243 AAO 343712N/0851906W
CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.**

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD S LETBE, RT, 022.44 INBOUND, 3500 FT. IN LIEU OF PT (IAF)**
3. FAC: 022.46 FAF: PIKIE DIST FAF TO MAP: 5.48 THLD: 5.48
4. MIN. ALT: **LETBE 3500, PIKIE 3000**
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: **RW02 4100**

MAG VAR: **3W** EPOCH YEAR: **2000**

MINIMUMS

| | | | | | | | | | | | | | | | |
|--|----------------------|----------|------------|----------|-----------|---------|----------|-----------|---------|----------|-----------|---------|----------|-----|---------|
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: NA | @ | | | | | | | | | | | | | |
| 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 | 1500 | 1 | 728 | | NA | | | NA | | | NA | | | | |
| CIRCLING | 1660 | 1 | 884 | | NA | | | NA | | | NA | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ATUNE ON V209 SOUTHWEST BOUND.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT A 900-2



| | | | | |
|--|---|-------------------------------------|--|---|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 TDZE: 772 AIRPORT NAME: BARWICK LAFAYETTE | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1 DATED 01/15/2009 |
|--|---|-------------------------------------|--|---|

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 METAE ON V243 SOUTHBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE CHATTANOOGA ATLTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND INCREASE CIRCLING VISIBILITY 1/4 SM.



| | | | | | |
|---------------------------------|------------------------------------|-----------|------------------------------|--|-------------------|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 | TDZE: 772 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: BARWICK LAFAYETTE | | | | AMDT: 1 |
| | | | | | DATED: 01/15/2009 |

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 - 9A5

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ATUNE | 010 | ATUNE | IF | FB | | | | | | | | | | E A |
| ATUNE | 020 | LETBE | TF | FB | 1.0 | 112.0 | | | | | | AA 03500 | | EE B |
| LETBE | 010 | LETBE | HF | FO | | 022.4 | | | R | | | AA 03500 | | EE A |
| METAE | 010 | METAE | IF | FB | | | | | | | | | | E A |
| METAE | 020 | LETBE | TF | FB | 1.0 | 295.5 | | | | | | AA 03500 | | EE B |
| | 010 | LETBE | IF | FB | | | | | | | | AA 03500 | | E I |
| | 020 | PIKIE | TF | FB | 1.0 | 022.4 | | | | RW02 | | AA 03000 | | E F |
| | 030 | RW02 | TF | FO | 0.3 | 022.5 | | 0.00 | | | | AT 01500 | | GY M |
| | 040 | | CA | FB | | 022.5 | | | | | | AA 01176 | | M |
| | 050 | LETBE | DF | FO | | | | | R | | | AA 03500 | | EY |
| | 060 | LETBE | HM | FO | | 022.4 | | | R | | | AA 03500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ATUNE | N343248.89 | W0852926.96 |
| METAE | N342817.55 | W0851500.46 |
| LETBE | N343040.64 | W0852157.80 |
| PIKIE | N343543.32 | W0851948.59 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW02 | N344053.61 | W0851735.83 | 00770 | |



| | | | | |
|--|---|---|---|--------------------------|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 TDZE: 772 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: BARWICK LAFAYETTE | | | AMDT: 1 |
| | | | | DATED: 01/15/2009 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|-----------------|---------------------|----------|
| HOCHE | MEBGE (FB) | 284.62 / 10.24 | 4000 |
| COMAR | ADETE (FB) | 094.69 / 15.32 | 4600 |
| MEBGE (IAF) | OKTEE (FB) | 292.60 / 5.90 | 3500 |
| GQO VORTAC (IAF) | OKTEE (FB) | 210.96 / 6.26 | 3500 |
| ADETE (IAF) | OKTEE (FB) | 112.47 / 5.90 | 3500 |
| OKTEE (IF) | WESOR (FB) | 202.53 / 5.40 | 3100 |
| WESOR (FAF) | RW20 (MAP) (FO) | 202.51 / 5.70 | |
| (SEE FORM 8260-10) | | | |

LP: RW20
LNAV: RW20

CLIMB TO 3500 DIRECT LETBE AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 022.44 INBOUND.
FAS OBST: 1217 AAO 344637N/0851607W
FAS OBST: 1184 AAO 344457N/0851624W
1446 AAO 344750N/0851653W
WAAS CHANNEL # 86241
REFERENCE PATH ID: W20A
CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
LTP HAE: 206.7 M

MAG VAR: 3W EPOCH YEAR: 2000

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT OKTEE
3. FAC: 202.51 FAF: WESOR DIST FAF TO MAP: 5.70 THLD: 5.70
4. MIN. ALT: OKTEE 3500, WESOR 3100
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: RW20 4100

MINIMUMS

| | | | | | | | | | | | | | | | | |
|--------------------------|--|-----|---------|--------|-----|----------------------|-----------------|-----|---------|--------|-----|---------|--------|-----|---------|--|
| TAKEOFF: <u> </u> | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | ALTERNATE: <u>NA</u> | @ <u> </u> | | | | | | | | | |
| CATEGORY <u>====></u> | 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 | 1440 | 1 | 664 | | NA | | | NA | | | NA | | | | | |
| LNAV MDA | 1600 | 1 | 824 | | NA | | | NA | | | NA | | | | | |
| CIRCLING | 1660 | 1 | 884 | | NA | | | NA | | | NA | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GQO VORTAC AIRWAY RADIALS 126 CW 262.
CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
(CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT A 900-2



| | | | | |
|--|--|-------------------------------------|---|---|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 TDZE: 776 AIRPORT NAME: BARWICK LAFAYETTE | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1 DATED 01/15/2009 |
|--|--|-------------------------------------|---|---|

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> |
|-------------|------------|----------------------------|-----------------|
| RW20 (MAP) | 1176 MSL | 202.51 | |
| 1176 MSL | LETBE (FO) | | 3500 |

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHATTANOOGA ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND INCREASE CIRCLING VISIBILITY 1/4 SM.



| | | | | | |
|---------------------------------|--|-----------|------------------------------|---|-------------------|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 AIRPORT NAME: BARWICK LAFAYETTE | TDZE: 776 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 1 |
| | | | | | DATED: 01/15/2009 |

**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 | 9A5 |
| RUNWAY | RW20 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W20A |
| LTP/FTP LATITUDE | 344139.3055N |
| LTP/FTP LONGITUDE | 0851716.2515W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02067 |
| FPAP LATITUDE | 344015.1700N |
| FPAP LONGITUDE | 0851752.2935W |
| 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 | 1256 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 0.0 |

CRC REMAINDER F1D8681C

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K7 |
| LTP ORTHOMETRIC HEIGHT | +02359 |
| FPAP ORTHOMETRIC HEIGHT | +02359 |



| | | | | | |
|--|---|------------------|-------------------------------------|--|--------------------------|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 | TDZE: 776 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: BARWICK LAFAYETTE | | | | AMDT: 1 |
| | | | | | DATED: 01/15/2009 |

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

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ARINC SUMMARY - 9A5

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| COMAR | 010 | COMAR | IF | FB | | | | | | | | | | E |
| COMAR | 020 | ADETE | TF | FB | 2.0 | 094.7 | | | | | | AA 04600 | | E A |
| COMAR | 030 | OKTEE | TF | FB | 1.0 | 112.5 | | | | | | AA 03500 | | EE B |
| GQO | 010 | GQO | IF | FB | | | | | | | | | | V A |
| GQO | 020 | OKTEE | TF | FB | 1.0 | 211.0 | | | | | | AA 03500 | | EE B |
| HOICHE | 010 | HOICHE | IF | FB | | | | | | | | | | E |
| HOICHE | 020 | MEBGE | TF | FB | 2.0 | 284.6 | | | | | | AA 04000 | | E A |
| HOICHE | 030 | OKTEE | TF | FB | 1.0 | 292.6 | | | | | | AA 03500 | | EE B |
| | 010 | OKTEE | IF | FB | | | | | | | | AA 03500 | | E I |
| | 020 | WESOR | TF | FB | 1.0 | 202.5 | | | | RW20 | | AA 03100 | | E F |
| | 030 | RW20 | TF | FO | 0.3 | 202.5 | | 0.00 | | | | AT 01440 | | GY M |
| | 040 | | CA | FB | | 202.5 | | | | | | AA 01176 | | M |
| | 050 | LETBE | DF | FO | | | | | | | | AA 03500 | | EY |
| | 060 | LETBE | HM | FO | | 022.4 | | | R | | | AA 03500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| GQO | N345740.54 | W0850912.14 |
| COMAR | N345435.37 | W0853809.10 |
| HOICHE | N344806.29 | W0845349.79 |
| ADETE | N345406.73 | W0851931.71 |
| LETBE | N343040.64 | W0852157.80 |
| MEBGE | N345009.62 | W0850600.79 |
| OKTEE | N345208.36 | W0851246.09 |
| WESOR | N344702.49 | W0851457.61 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW20 | N344139.31 | W0851716.25 | 00774 | |



| | | | | |
|--|---|----------------------|--|--------------------------|
| CITY AND STATE LAFAYETTE, GA | ELEVATION: 776 TDZE: 776 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: BARWICK LAFAYETTE | RNAV | RNAV (GPS) RWY 20, AMDT 2 5 JANUARY 2017 | AMDT: 1 |
| | | | | DATED: 01/05/2009 |

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 |
|--------------|----------------------------|----------------|---------|
| LEWISTON, ID | LEWISTON-NEZ PEARCE COUNTY | 5 JANUARY 2017 | 4 |

TAKEOFF MINIMUMS:

RWY 08: STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 3000 OR 2500-3 FOR VCOA.
RWY 12: STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 3000 OR 2500-3 FOR VCOA.
RWY 26: STANDARD WITH MINIMUM CLIMB OF 265 FT PER NM TO 3000 OR 2500-3 FOR VCOA.
RWY 30: STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 3000 OR 2500-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWYS 8, 12, 26, 30, CLIMBING LEFT TURN DIRECT MQG VOR/DME, CONTINUE CLIMB IN MQG HOLDING PATTERN (HOLD, SW, LT, 066 INBOUND) TO CROSS MQG VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.

VISUAL CLIMB OVER AIRPORT:

RWYS 8, 12, 26, 30: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS LEWISTON-NEZ PEARCE COUNTY AIRPORT AT OR ABOVE 3800 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 12: APRT SIGN 14 FT FROM DER, 117 FT RIGHT OF CENTERLINE, 3 FT AGL/1443 FT MSL.
NOTE: RWY 26: ELEC SYS 31 FT FROM DER, 150 FT RIGHT OF CENTERLINE, 13 FT AGL/1428 FT MSL.
NOTE: RWY 30: REIL 39 FT FROM DER, 113 FT LEFT OF CENTERLINE, 2 FT AGL/1373 FT MSL. TREES BEGINNING 543 FT FROM DER, 42 FT CROSSING CENTERLINE, 50 FT AGL/1398 FT MSL.

CONTROLLING OBSTACLES:

RWY 8: 3599 FT MSL AAO 461615.00N/1164712.00W (CLIMB GRADIENT AND CLIMB-TO-ALTITUDE).
RWY 12: 3599 FT MSL AAO 461615.00N/1164712.00W (CLIMB GRADIENT AND CLIMB-TO-ALTITUDE).
RWY 26: 2079 FT MSL AAO 462040.65N/1170541.51W (CLIMB GRADIENT), 3599 FT MSL AAO 461615.00N/1164712.00W (CLIMB-TO ALTITUDE).
RWY 30: 2079 FT MSL AAO 462040.65N/1170541.51W (CLIMB GRADIENT), 3599 FT MSL AAO 461615.00N/1164712.00W (CLIMB-TO ALTITUDE).
VCOA: 2199 FT MSL AAO 461906.53N/1165811.84W (LEVEL SURFACE), 5039 FT MSL AAO 461025.05N/1165036.89W (CLIMB-TO ALTITUDE).
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 8, 12, 26, 30: 3246 FT MSL TOWER, 462727.00N/1170607.00W.

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 LEWISTON, ID | AIRPORT LEWISTON-NEZ PEARCE COUNTY | EFFECTIVE DATE 5 JANUARY 2017 | AMDT NO 4 |
|------------------------------------|--|---|---------------------|

REMARKS:

| | | | |
|---|--|-----------------------------------|----------------------------|
| FLIGHT INSPECTED BY: JOEL F. HAWKLEY | <i>Digitally signed by</i> BEV L BORDY Nov 14, 2016 | OFFICE SYMBOL: FICO | DATE: 11/08/2016 |
| DEVELOPED BY: BEV BORDY (CHRISTINE BAYSE) | <i>Digitally signed by</i> BEV L BORDY Nov 14, 2016 | OFFICE SYMBOL: AJV-5433 | DATE: 08/23/2016 |
| APPROVED BY: LONNIE EVERHART | <i>Digitally signed by</i> BEV L BORDY Nov 14, 2016 | OFFICE SYMBOL: AJV-5430 | DATE: |

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:
SEA ARTCC, LWS ATCT, AMGR, ALW FSS

CHANGES - REASONS:

1. CHANGED ALL TAKEOFF MINIMUMS FROM "STANDARD" TO "STANDARD WITH A MINIMUM CLIMB..". - NEW CONTROLLING OBSTACLES.
2. ADDED VCOA. - IAW 8260.3
3. CHANGED ALL REFERENCES OF LWS VOR/DME TO MQG VOR/DME.- NAVAID NAME CHANGED.
4. CHANGED TEXTUAL DEPARTURE PROCEDURE FROM "TO CROSS LWS VOR/DME AT OR ABOVE 3600" TO "TO CROSS MQG VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT".- TO ACCOUNT FOR MEA'S AND MCA OF 6400 ON V253 SOUTHEAST BOUND.
5. UPDATED TAKEOFF OBSTACLE NOTES FOR RWY 12, 26, AND 30.- NEW LOW-CLOSE-IN OBSTACLES.
6. UPDATED CONTROLLING OBSTACLES FOR RWYS 8, 12, 26, AND 30.- NEW CONTROLLING OBSTACLES.
7. CHANGED THE AIRPORT NAME FROM "LEWISTON-NEZ PERCE" TO "LEWISTON-NEZ PERCE COUNTY".-AIRPORT NAME CHANGED.



**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|------------------|-------------------|---------------------|----------|--|
| JAZZY (IAF) | FINED (NOPT) (FB) | 184.37 / 14.06 | 2300 | LPV: DA LNAV/VNAV: DA LNAV: RW27 |
| TTH VORTAC (IAF) | FINED (NOPT) (FB) | 332.23 / 15.29 | 2300 | |
| WAVEL (IAF) | FINED (NOPT) (FB) | 240.55 / 12.73 | 2300 | CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2300 DIRECT FINED AND HOLD. |
| FINED (IF/IAF) | DECPA (FB) | 272.44 / 6.01 | 2300 | |
| DECPA (FAF) | RW27 (MAP) (FO) | 272.36 / 5.05 | | |
| RW27 (MAP) | 1100 MSL | 272.36 | 1100 | ADDITIONAL FLIGHT DATA: HOLD E, RT, 272.44 INBOUND. FAS OBST: 815 AAO 394139N/0873435W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 1.03 NM TO RW27* *LNAV ONLY. WAAS CHANNEL # 61239 REFERENCE PATH ID: W27A CHART CIRCLING ICON. LTP HAE: 166.2 M |
| 1100 MSL | FINED (FO) | | 2300 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD E FINED, RT, 272.44 INBOUND, 2300 FT. IN LIEU OF PT (IAF)
3. FAC: 272.36 FAF: DECPA DIST FAF TO MAP: 5.05 THLD: 5.05
4. MIN. ALT: FINED 2300, DECPA 2300
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2300 GS ALT AT: DECPA 2300 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
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 | 925 | 1 | 274 | 925 | 1 | 274 | 925 | 1 | 274 | 925 | 1 | 274 | | | |
| LNAV MDA | 1080 | 1 | 429 | 1080 | 1 | 429 | 1080 | 1 1/4 | 429 | 1080 | 1 1/4 | 429 | | | |
| CIRCLING | 1080 | 1 | 426 | 1120 | 1 | 466 | 1120 | 1 1/2 | 466 | 1320 | 2 | 666 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING TERRE HAUTE INTL-HULMAN FIELD ALTIMETER SETTING.
 CHART NOTE: CIRCLING RWY 9, 18 NA AT NIGHT.
 (CONTINUED ON PAGE 2)

QUALITY
23
CHECKED

| | | | | |
|-----------------------------|---|------------------------------|--|-------------------------------------|
| 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 1A 5 JANUARY 2017 | SUP: AMDT: 1 DATED 07/21/2016 |
|-----------------------------|---|------------------------------|--|-------------------------------------|

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: DME/DME RNP-0.3 NA.

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

CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON TTH VORTAC AIRWAY RADIALS 254 CW 303.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TERRE HAUTE INTL-HULMAN FIELD ALTIMETER

SETTING: INCREASE ALL LPV DA TO 962 FEET, ALL LNAV/VNAV DA TO 986 AND ALL VISIBILITIES TO 1 1/8

SM, INCREASE ALL MDA 80 FEET AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM, AND CAT D CIRCLING TO 2 1/2 SM.

QUALITY
23
CHECKED

| | | | | | |
|------------------------------------|--|-----------|-------------------------------------|---|--------------------------|
| CITY AND STATE PARIS, IL | ELEVATION: 654 AIRPORT NAME: EDGAR COUNTY | TDZE: 651 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 1 |
| | | | | | DATED: 07/21/2016 |

**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

| <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 |

CRC REMAINDER B47726A9

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY
23
CHECKED

| | | | | |
|------------------------------------|--|-------------------------------------|---|--------------------------|
| 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 1A 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1 |
| | | | | DATED: 07/21/2016 |

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

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ARINC SUMMARY - KPRG

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION 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 01100 | | 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 LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW27 | N394201.24 | W0873941.89 | 00651 | 40.0 |

QUALITY
23
CHECKED

| | | | | |
|------------------------------------|--|---|---|--------------------------|
| CITY AND STATE PARIS, IL | ELEVATION: 654 TDZE: 651 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: EDGAR COUNTY | | | AMDT: 1 |
| | | | | DATED: 07/21/2016 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|----------------------------|---------------------|----------|
| ALLOE | PURTE (FB) | 118.58 / 11.95 | 2500 |
| VHP VORTAC | GALPE (FB) | 274.80 / 14.12 | 2600 |
| GALPE (IAF) | FAMTU (NOPT) (FB) | 274.21 / 6.30 | 2500 |
| PURTE (IAF) | FAMTU (NOPT) (FB) | 094.03 / 6.30 | 2500 |
| FAMTU (IF/IAF) | JOBKO (FB) | 184.12 / 5.89 | 2500 |
| JOBKO (FAF) | MAQUI/1.60 NM TO RW18 (FB) | 184.11 / 3.51 | |
| (SEE FORM 8260-10) | | | |

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

CLIMB TO 2500 DIRECT EYUTA AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 004.11 INBOUND.
CHART FAS OBST: 935 TREE 393906N/0864847W
1100 AAO 394346N/0865006W
DISTANCE TO THLD FROM 264 HAT: 0.73 NM.
CHART VDP AT 1.03 NM TO RW18*
*LNAV ONLY.
WAAS CHANNEL # 86906
REFERENCE PATH ID: W18A
CHART CIRCLING ICON.
LTP HAE: 223.6 M

MAG VAR: 3W EPOCH YEAR: 2005

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N FAMTU, RT, 184.12 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 184.11 FAF: JOBKO DIST FAF TO MAP: 5.11 THLD: 5.11
4. MIN. ALT: FAMTU 2500, JOBKO 2500, MAQUI/1.60 NM TO RW18 1380*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2500 GS ALT AT: JOBKO 2500 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 30.0 34:1 IS NOT CLEAR
8. MSA FROM: RW18 2600

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 | 1107 | 7/8 | 265 | 1107 | 7/8 | 265 | 1107 | 7/8 | 265 | 1107 | 7/8 | 265 | | | |
| LNAV/VNAV DA | 1106 | 7/8 | 264 | 1106 | 7/8 | 264 | 1106 | 7/8 | 264 | 1106 | 7/8 | 264 | | | |
| LNAV MDA | 1200 | 1 | 358 | 1200 | 1 | 358 | 1200 | 1 | 358 | 1200 | 1 | 358 | | | |
| CIRCLING | 1280 | 1 | 438 | 1400 | 1 | 558 | 1480 | 1 3/4 | 638 | 1480 | 2 | 638 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALLOE ON V7 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VHP VORTAC AIRWAY RADIALS 209 CW 311.

| | | | | |
|--|---|-------------------------------------|---|--|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 842 AIRPORT NAME: PUTNAM COUNTY RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1A DATED 04/28/2016 |
|--|---|-------------------------------------|---|--|



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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-----------------------|-----------------|----------------------------|-----------------|
| MAQUI/1.60 NM TO RW18 | RW18 (MAP) (FO) | 184.11 / 1.60 | |
| RW18 (MAP) | 1106 MSL | 184.11 | |
| 1106 MSL | EYUTA (FO) | | 2500 |

QUALITY
18
CHECKED

| | | | | |
|--|--|-------------------------------------|--|--------------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 842 AIRPORT NAME: PUTNAM COUNTY RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1A |
| | | | | DATED: 04/28/2016 |

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

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(This area is intentionally left blank for the instrument approach procedure.)



| | | | | |
|--|--|-------------------------------------|--|--------------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 842 AIRPORT NAME: PUTNAM COUNTY RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1A |
| | | | | DATED: 04/28/2016 |

**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

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KGPC |
| RUNWAY | RW18 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W18A |
| LTP/FTP LATITUDE | 393825.4555N |
| LTP/FTP LONGITUDE | 0864849.1230W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02236 |
| FPAP LATITUDE | 393656.2985N |
| FPAP LONGITUDE | 0864851.3470W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00030.0 |
| 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 EE908EDB

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02566 |
| FPAP ORTHOMETRIC HEIGHT | +02566 |



| | | | | | |
|--|--|-----------|-------------------------------------|--|--------------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 | TDZE: 842 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: PUTNAM COUNTY RGNL | | | | AMDT: 1A |
| | | | | | DATED: 04/28/2016 |

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

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ARINC SUMMARY - KGPC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ALLOE | 010 | ALLOE | IF | FB | | | | | | | | | | E |
| ALLOE | 020 | PURTE | TF | FB | 2.0 | 118.6 | | | | | | AA 02500 | | E A |
| ALLOE | 030 | FAMTU | TF | FB | 1.0 | 094.0 | | | | | | AA 02500 | | EE B |
| FAMTU | 010 | FAMTU | HF | FO | | 184.1 | | | R | | | AA 02500 | | EE A |
| VHP | 010 | VHP | IF | FB | | | | | | | | | | V |
| VHP | 020 | GALPE | TF | FB | 2.0 | 274.8 | | | | | | AA 02600 | | E A |
| VHP | 030 | FAMTU | TF | FB | 1.0 | 274.2 | | | | | | AA 02500 | | EE B |
| | 010 | FAMTU | IF | FB | | | | | | | | AA 02500 | | E I |
| | 020 | JOBKO | TF | FB | 1.0 | 184.1 | | | | RW18 | | AA 02500 | | E F |
| | 021 | MAQUI | TF | FB | 0.3 | 184.1 | | 3.00 | | | | AA 01380 GS 01382 | | E S |
| | 030 | RW18 | TF | FO | 0.3 | 184.1 | | 3.00 | | | | AT 00872 | | GY M |
| | 040 | | CA | FB | | 184.1 | | | | | | AA 01106 | | M |
| | 050 | EYUTA | DF | FO | 1.0 | | | | | | | AA 02500 | | EY |
| | 060 | EYUTA | HM | FO | | 004.1 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| VHP | N394853.02 | W0862203.00 |
| ALLOE | N395443.65 | W0871042.39 |
| EYUTA | N392635.63 | W0864906.88 |
| FAMTU | N394925.87 | W0864832.53 |
| GALPE | N394918.19 | W0864022.02 |
| JOBKO | N394332.38 | W0864841.46 |
| MAQUI | N394001.52 | W0864846.73 |
| PURTE | N394932.98 | W0865643.07 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW18 | N393825.46 | W0864849.12 | 00842 | 30 |



| | | | | |
|--|--|---|--|-----------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 842 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: PUTNAM COUNTY RGNL | | | AMDT: 1A |
| | DATED: 04/28/2016 | | | |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|----------------------------|---------------------|----------|
| TTH VORTAC | HADBI (FB) | 103.74 / 13.95 | 2500 |
| ZARHO | JANIX (FB) | 262.01 / 13.17 | 2500 |
| HADBI (IAF) | EYUTA (NOPT) (FB) | 094.02 / 6.30 | 2500 |
| JANIX (IAF) | EYUTA (NOPT) (FB) | 274.20 / 6.30 | 2500 |
| EYUTA (IF/IAF) | AGUYU (FB) | 004.11 / 6.11 | 2400 |
| AGUYU (FAF) | MEWED/1.90 NM TO RW36 (FB) | 004.10 / 2.99 | |
| (SEE FORM 8260-10) | | | |

LPV: DA
LNAV/VNAV: DA
LNAV: RW36

CLIMB TO 2500 DIRECT FAMTU AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 184.12 INBOUND.
CHART FAS OBST: 920 TREE 393752N/0864901W
DISTANCE TO THLD FROM 250 HAT: 0.74 NM.
CHART VDP AT 1.05 NM TO RW36*
*LNAV ONLY.
WAAS CHANNEL # 40306
REFERENCE PATH ID: W36A
CHART CIRCLING ICON.
LTP HAE: 215.2 M

MAG VAR: 3W EPOCH YEAR: 2005

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD S EYUTA, RT, 004.11 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 004.10 FAF: AGUYU DIST FAF TO MAP: 4.89 THLD: 4.89
4. MIN. ALT: EYUTA 2500, AGUYU 2400, MEWED/1.90 NM TO RW36 1440*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2400 GS ALT AT: AGUYU 2400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 30.0 34:1 IS CLEAR
8. MSA FROM: RW36 2600

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 | 1079 | 7/8 | 250 | 1079 | 7/8 | 250 | 1079 | 7/8 | 250 | 1079 | 7/8 | 250 | | | |
| LNAV/VNAV DA | 1116 | 1 | 287 | 1116 | 1 | 287 | 1116 | 1 | 287 | 1116 | 1 | 287 | | | |
| LNAV MDA | 1180 | 1 | 351 | 1180 | 1 | 351 | 1180 | 1 | 351 | 1180 | 1 | 351 | | | |
| CIRCLING | 1280 | 1 | 438 | 1400 | 1 | 558 | 1480 | 1 3/4 | 638 | 1480 | 2 | 638 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZARHO ON V12 AND V305 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TTH VORTAC AIRWAY RADIALS 062 CW 189.



| | | | | |
|--|---|-------------------------------------|---|--|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 829 AIRPORT NAME: PUTNAM COUNTY RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1B DATED 04/28/2016 |
|--|---|-------------------------------------|---|--|

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.

TERMINAL ROUTES, (CONT.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-----------------------|-----------------|----------------------------|-----------------|
| MEWED/1.90 NM TO RW36 | RW36 (MAP) (FO) | 004.10 / 1.90 | |
| RW36 (MAP) | 1079 MSL | 004.10 | |
| 1079 MSL | FAMTU (FO) | | 2500 |



| | | | | |
|--|---|-------------------------------------|--|--------------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 829 AIRPORT NAME: PUTNAM COUNTY RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1B |
| | | | | DATED: 04/28/2016 |

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.

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| | | | | |
|--|--|-------------------------------------|--|--------------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 829 AIRPORT NAME: PUTNAM COUNTY RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1B |
| | | | | DATED: 04/28/2016 |

**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

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KGPC |
| RUNWAY | RW36 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W36A |
| LTP/FTP LATITUDE | 393736.0295N |
| LTP/FTP LONGITUDE | 0864850.3560W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02152 |
| FPAP LATITUDE | 393905.1870N |
| FPAP LONGITUDE | 0864848.1315W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00030.0 |
| 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 EF84F55F

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02482 |
| FPAP ORTHOMETRIC HEIGHT | +02482 |



| | | | | | |
|-----------------------------------|-------------------------------------|-----------|------------------------------|---|-------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 | TDZE: 829 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: PUTNAM COUNTY RGNL | | | | AMDT: 1B |
| | | | | | DATED: 04/28/2016 |

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 - KGPC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| EYUTA | 010 | EYUTA | HF | FO | | 004.1 | | | R | | | AA 02500 | | EE A |
| TTH | 010 | TTH | IF | FB | | | | | | | | | | V |
| TTH | 020 | HADBI | TF | FB | 2.0 | 103.7 | | | | | | AA 02500 | | E A |
| TTH | 030 | EYUTA | TF | FB | 1.0 | 094.0 | | | | | | AA 02500 | | EE B |
| ZARHO | 010 | ZARHO | IF | FB | | | | | | | | | | E |
| ZARHO | 020 | JANIX | TF | FB | 2.0 | 262.0 | | | | | | AA 02500 | | E A |
| ZARHO | 030 | EYUTA | TF | FB | 1.0 | 274.2 | | | | | | AA 02500 | | EE B |
| | 010 | EYUTA | IF | FB | | | | | | | | AA 02500 | | E I |
| | 020 | AGUYU | TF | FB | 1.0 | 004.1 | | | | RW36 | | AA 02400 | | E F |
| | 021 | MEWED | TF | FB | 0.3 | 004.1 | | 3.00 | | | | AA 01440 GS 01449 | | E S |
| | 030 | RW36 | TF | FO | 0.3 | 004.1 | | 3.00 | | | | AT 00844 | | GY M |
| | 040 | | CA | FB | | 004.1 | | | | | | AA 01079 | | M |
| | 050 | FAMTU | DF | FO | 1.0 | | | | | | | AA 02500 | | EY |
| | 060 | FAMTU | HM | FO | | 184.1 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| TTH | N392920.19 | W0871456.45 |
| ZARHO | N392859.99 | W0862417.99 |
| AGUYU | N393242.72 | W0864857.66 |
| EYUTA | N392635.63 | W0864906.88 |
| FAMTU | N394925.87 | W0864832.53 |
| HADBI | N392642.68 | W0865714.74 |
| JANIX | N392628.02 | W0864059.05 |
| MEWED | N393541.96 | W0864853.20 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW36 | N393736.03 | W0864850.36 | 00814 | 30 |

QUALITY
18
CHECKED

| | | | | |
|--|--|---|--|--------------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 TDZE: 829 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: PUTNAM COUNTY RGNL | | | AMDT: 1B |
| | | | | DATED: 04/28/2016 |

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 |
| GREENCASTLE, IN | PUTNAM COUNTY RGNL | 5 JANUARY 2017 | 1 |

TAKEOFF MINIMUMS:
RWY 18, 36: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 18: GRD 91 FT FROM DER, 299 FT LEFT OF CENTERLINE, 817 FT MSL. FENCE 113 FT FROM DER, 306 FT LEFT OF CENTERLINE, 3 FT AGL/822 FT MSL. FENCE 199 FT FROM DER, 307 FT LEFT OF CENTERLINE, 7 FT AGL/825 FT MSL. TREES, POLES, AND BLDGS BEGINNING 538 FT FROM DER, 373 FT RIGHT OF CENTERLINE, UP TO 873 FT MSL. TREE 997 FT FROM DER, 266 FT LEFT OF CENTERLINE, 855 FT MSL. TREE 1015 FT FROM DER, 360 FT LEFT OF CENTERLINE, 859 FT MSL. TREE 2728 FT FROM DER, 1049 FT RIGHT OF CENTERLINE, 894 FT MSL.
NOTE: RWY 36: GRD 4 FT FROM DER, 486 FT RIGHT OF CENTERLINE, 850 FT MSL. TREES BEGINNING 656 FT FROM DER, 596 FT RIGHT OF CENTERLINE, UP TO 910 FT MSL. TREES AND BLDG BEGINNING 1269 FT FROM DER, 206 FT RIGHT OF CENTERLINE, UP TO 912 FT MSL. TREES, SPIRE, AND BLDG BEGINNING 1861 FT FROM DER, 217 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/918 FT MSL. TREE 1862 FT FROM DER, 535 FT LEFT OF CENTERLINE, 42 FT AGL/889 FT MSL. TREES BEGINNING 2227 FT FROM DER, 199 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/912 FT MSL. TREE AND BLDG BEGINNING 2334 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 913 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY:
JEFFREY W HARING

Digitally signed by
STEVEN A VARGAS
Nov 02, 2016

OFFICE SYMBOL:
FICO

DATE:
10/26/2016

DEVELOPED BY: *Digitally signed by*
STEVEN NELSON **STEVEN NELSON**
Sep 19, 2016

OFFICE SYMBOL:
AJV-5423

DATE:
08/22/2016

APPROVED BY:
TONY LAWSON

Digitally signed by
STEVEN A VARGAS
Nov 02, 2016

OFFICE SYMBOL:
AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:
INDIANAPOLIS APP CON, AMGR.

CHANGES - REASONS:

1. UPDATED TAKEOFF OBSTACLE NOTES - CURRENT SURVEY/DATABASE OBSTACLE EVALUATION AND AIRPORT ID CHANGE FROM K417 TO KGPC.
2. INCORPORATED P-NOTAM ORIG-A - AIRPORT NAME CHANGE.



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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | MAP: BARAY/23.14 DME |
|----------------------|-----------------|---------------------|----------|---|
| VHP VORTAC (IAF) | AYOCA/10.00 DME | 241.00 / 10.00 | 2600 | CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 2500 ON VHP VORTAC R-241 TO AVAIL/18.00 DME AND HOLD. |
| AYOCA/10.00 DME (IF) | AVAIL/18.00 DME | 241.00 / 8.00 | 2500 | |
| | | | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 241.00 INBOUND. CHART FAS OBST: 1153 TOWER 394117N/0864529W FAC CROSSES 1336 FT N OF RW36 THLD. CHART CIRCLING ICON. |

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
2. **PROFILE STARTS AT VHP VORTAC**
3. FAC 241.00 FAF AVAIL/18.00 DME DIST FAF TO MAP _____ THLD _____
4. MIN. ALT VHP VORTAC 2600, AYOCA 2600, AVAIL 2500
8. MSA FROM: **VHP VORTAC 3100**

MAG VAR: 1E 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 | |
| CIRCLING | 1420 | 1 | 578 | 1420 | 1 | 578 | 1480 | 1 3/4 | 638 | 1480 | 2 | 638 | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:

CHART NOTE: DME REQUIRED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VHP VORTAC AIRWAY RADIALS 184 CW 278.



| | | | | | | |
|--|--|-------|------------------------------------|--|------|-------------------|
| CITY AND STATE GREENCASTLE, IN | ELEVATION: 842 | TDZE: | FACILITY IDENTIFIER: VHP | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 7 5 JANUARY 2017 | SUP | VOR/DME-A |
| | AIRPORT NAME: PUTNAM COUNTY RGNL | | | | AMDT | 6A |
| | | | | | DATE | 04/28/2016 |

**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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: 5.40 NM AFTER ELYSE OM/INT |
|------|----|---------------------|----------|---|
| | | | | CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 2400 ON SHB R-334 TO SHB VOR/DME AND HOLD. |
| | | | | ADDITIONAL FLIGHT DATA: HOLD NW, RT, 154.00 INBOUND. CHART FAS OBST: 1025 PWR LINE 395140N/0854650W CHART CIRCLING ICON. |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD E ELYSE, RT, 252.00 INBOUND, 2700 FT. IN LIEU OF PT (IAF)
3. FAC: 252.00 FAF: ELYSE OM/INT DIST FAF TO MAP: 5.40 THLD: 5.40
4. MIN. ALT: ELYSE OM/INT 2700
5. DIST TO THLD FROM OM: 5.40 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1003
6. MIN GS INCPT: 2700 GS ALT AT: - OM: 2653 MM: - IM: -
7. GS ANGLE: 3.00 TCH: 53.0
8. MSA FROM: SHB VOR/DME 3100

MAG VAR: 2W

EPOCH YEAR: 1985

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 |
| S-ILS 25 | 1060 | 1/2 | 200 | 1060 | 1/2 | 200 | 1060 | 1/2 | 200 | 1060 | 1/2 | 200 | | | |
| S-LOC 25 | 1280 | 1/2 | 420 | 1280 | 1/2 | 420 | 1280 | 3/4 | 420 | 1280 | 3/4 | 420 | | | |
| CIRCLING | 1340 | 1 | 478 | 1340 | 1 | 478 | 1360 | 1 1/2 | 498 | 1660 | 2 1/2 | 798 | | | |

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE INDIANAPOLIS INTL ALTIMETER SETTING AND INCREASE ALL DA 55 FEET AND ALL MDA 60 FEET, INCREASE S-LOC 25 CATS C/D VISIBILITY 1/4 MILE AND CIRCLING CAT D VISIBILITY 1/4 MILE.

| | | | | |
|---|---|--------------------------------------|--|--|
| CITY AND STATE INDIANAPOLIS, IN | ELEVATION: 862 TDZE: 860 AIRPORT NAME: INDIANAPOLIS RGNL | FACILITY IDENTIFIER: I-MQJ | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 25, AMDT 2E 5 JANUARY 2017 | SUP: AMDT: 2D DATED 04/28/2016 |
|---|---|--------------------------------------|--|--|



**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|----------------|-------------------|---------------------|----------|
| SHB VOR/DME | KOYDE (FB) | 040.73 / 15.13 | 2900 |
| NEWTO (IAF) | FOGBU (NOPT) (FB) | 270.77 / 8.65 | 2700 |
| PENDS (IAF) | FOGBU (NOPT) (FB) | 168.68 / 11.81 | 2700 |
| KOYDE (IAF) | FOGBU (NOPT) (FB) | 342.19 / 5.00 | 2700 |
| FOGBU (IF/IAF) | HUDAX (FB) | 252.17 / 6.01 | 2700 |
| HUDAX (FAF) | RW25 (MAP) (FO) | 250.09 / 5.53 | |
| RW25 (MAP) | 1160 MSL | 250.09 | |

LPV: DA
LNAV/VNAV: DA
LNAV: RW25

CLIMB TO 2900 DIRECT RAPBO AND ON TRACK 142.59 TO SHB VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 322.71 INBOUND.
CHART FAS OBST: 969 TREE 395028N/0855305W
1109 AAO 395133N-0854625W
DISTANCE TO THLD FROM 300 HAT: 0.78 NM.
CHART VDP AT 0.96 NM TO RW25*
*LNAV ONLY.
WAAS CHANNEL # 56310
REFERENCE PATH ID: W25A
CHART CIRCLING ICON.
LTP HAE: 227.6 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD E FOGBU, RT, 252.17 INBOUND, 2700 FT. IN LIEU OF PT (IAF)
3. FAC: 252.09 FAF: HUDAX DIST FAF TO MAP: 5.53 THLD: 5.53
4. MIN. ALT: FOGBU 2700, HUDAX 2700
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2700 GS ALT AT: HUDAX OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 53.1 34:1 IS NOT CLEAR
8. MSA FROM: RW25 3100

MAG VAR: 2W EPOCH YEAR: 1985

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 | 1160 | 1/2 | 300 | 1160 | 1/2 | 300 | 1160 | 1/2 | 300 | 1160 | 1/2 | 300 | | | |
| LNAV/VNAV DA | 1259 | 7/8 | 399 | 1259 | 7/8 | 399 | 1259 | 7/8 | 399 | 1259 | 7/8 | 399 | | | |
| LNAV MDA | 1220 | 1/2 | 360 | 1220 | 1/2 | 360 | 1220 | 5/8 | 360 | 1220 | 5/8 | 360 | | | |

| | | | | | | | | | | | | | | | |
|----------|------|---|-----|------|---|-----|------|-------|-----|------|-------|-----|--|--|--|
| CIRCLING | 1340 | 1 | 478 | 1340 | 1 | 478 | 1360 | 1 1/2 | 498 | 1660 | 2 1/2 | 798 | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F).
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING INDIANAPOLIS INTL ALTIMETER SETTING.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PENDS ON V14-192-210 NORTHEAST BOUND.
(CONTINUED ON PAGE 2)



| | | | | |
|------------------------------------|--|------------------------------|--|---|
| CITY AND STATE INDIANAPOLIS, IN | ELEVATION: 862 TDZE: 860 AIRPORT NAME: INDIANAPOLIS RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, ORIG-B 5 JANUARY 2017 | SUP: AMD T: ORIG-A DATED 04/28/2016 |
|------------------------------------|--|------------------------------|--|---|

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.

TERMINAL ROUTES, (CONT.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-------------|------------------|----------------------------|-----------------|
| 1160 MSL | RAPBO (FB) | | |
| RAPBO | SHB VOR/DME (FO) | 142.59 | 2900 |

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SHB VOR/DME AIRWAY RADIALS 028 CW 080 AND AT NEWTO ON V50 EASTBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE INDIANAPOLIS INTL ALTIMETER SETTING AND INCREASE ALL DA 55 FEET AND ALL MDA 60 FEET, AND INCREASE ALL VISIBILITIES 1/2 MILE.

CHART NOTE: WHEN USING INDIANAPOLIS ALTIMETER SETTING INOPERATIVE TABLE DOES NOT APPLY.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT C/D VISIBILITY TO 1 MILE.

QUALITY
24
CHECKED

| | | | | |
|---|--|-------------------------------------|--|--------------------------|
| CITY AND STATE INDIANAPOLIS, IN | ELEVATION: 862 TDZE: 860 AIRPORT NAME: INDIANAPOLIS RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, ORIG-B 5 JANUARY 2017 | SUP: ORIG-A |
| | | | | AMDT: ORIG-A |
| | | | | DATED: 04/28/2016 |

**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 | KMQJ |
| RUNWAY | RW25 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W25A |
| LTP/FTP LATITUDE | 395031.9835N |
| LTP/FTP LONGITUDE | 0855327.8945W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02276 |
| FPAP LATITUDE | 395012.0500N |
| FPAP LONGITUDE | 0855439.0400W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00053.1 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.50 |
| LENGTH OFFSET | 0920 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | 7C3FC9E4 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02615 |
| FPAP ORTHOMETRIC HEIGHT | +02615 |

QUALITY
24
CHECKED

| | | | | | |
|---|---|-------------------------------------|--|--------|-------------------|
| CITY AND STATE INDIANAPOLIS, IN | ELEVATION: 862 TDZE: 860 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 25, ORIG-B 5 JANUARY 2017 | SUP: | ORIG-A |
| | AIRPORT NAME: INDIANAPOLIS RGNL | | | AMDT: | |
| | | | | DATED: | 04/28/2016 |

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

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ARINC SUMMARY - KMQJ

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| FOGBU | 010 | FOGBU | HF | FO | | 252.2 | | | R | | | AA 02700 | | EE A |
| NEWTO | 010 | NEWTO | IF | FB | | | | | | | | | | E A |
| NEWTO | 020 | FOGBU | TF | FB | 1.0 | 270.8 | | | | | | AA 02700 | | EE B |
| PENDS | 010 | PENDS | IF | FB | | | | | | | | | | E A |
| PENDS | 020 | FOGBU | TF | FB | 1.0 | 168.7 | | | | | | AA 02700 | | EE B |
| SHB | 010 | SHB | IF | FB | | | | | | | | | | V |
| SHB | 020 | KOYDE | TF | FB | 2.0 | 040.7 | | | | | | AA 02900 | | E A |
| SHB | 030 | FOGBU | TF | FB | 1.0 | 342.2 | | | | | | AA 02700 | | EE B |
| | 010 | FOGBU | IF | FB | | | | | | | | AA 02700 | | E I |
| | 020 | HUDAX | TF | FB | 1.0 | 252.2 | | | | RW25 | | AA 02700 | | E F |
| | 030 | RW25 | TF | FO | 0.3 | 250.1 | | 3.00 | | | | AT 00911 | | GY M |
| | 040 | | CA | FB | | 250.1 | | | | | | AA 01160 | | M |
| | 050 | RAPBO | DF | FB | 1.0 | | | | | | | | | E |
| | 060 | SHB | TF | FO | 1.0 | 142.6 | | | | | | AA 02900 | | VY |
| | 070 | SHB | HM | FO | | 322.7 | | | R | | | AA 02900 | | VE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| SHB | N393757.15 | W0854927.54 |
| NEWTO | N395439.55 | W0852808.36 |
| PENDS | N400557.83 | W0854254.47 |
| FOGBU | N395427.90 | W0853922.32 |
| HUDAX | N395225.29 | W0854642.77 |
| KOYDE | N394945.44 | W0853710.22 |
| RAPBO | N394830.65 | W0860040.08 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW25 | N395031.98 | W0855327.89 | 00858 | 53.1 |

QUALITY
24
CHECKED

| | | | | |
|---|---|---|--|------|
| CITY AND STATE INDIANAPOLIS, IN | ELEVATION: 862 TDZE: 860 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 25, ORIG-B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: INDIANAPOLIS RGNL | | AMDT: ORIG-A | |
| | | | DATED: 04/28/2016 | |

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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |

MAP:

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: _____

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 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:

PROCEDURE CANCELED EFFECTIVE 5 JANUARY 2017



| | | | | |
|-----------------------------|--|----------------------|--|------------------------|
| CITY AND STATE | ELEVATION: 771 TDZE: 769 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP |
| FORT LEAVENWORTH, KS | AIRPORT NAME: SHERMAN AAF | RN | NDB RWY 34, AMDT 4A, 09/25/2008 | AMDT 4 |
| | | | | DATE 07/05/2007 |

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | MAP: DOZPA/FOE 1.35 DME FIX |
|------------------------------|---------------------|---------------------------|----------|---|
| TOP VORTAC | VERRA/FOE 12.00 DME | 256.88 / 12.58 | 3100 | CLIMBING RIGHT TURN TO 3000 ON FOE TACAN R-213 TO STANC/FOE 19.00 DME AND HOLD. |
| VERRA/FOE 12.00 DME (IF/IAF) | JEVEL/FOE 6.00 DME | 138.00 / 6.00 (FOE R-318) | 2600 | |
| | | | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 213.00 INBOUND. CHART IN PLANVIEW: MAXIMUM HOLDING AIRSPEED 230 KIAS. FAS OBST: 1350 AAO 390006N/0954421W CHART VDP AT 2.85 DME DISTANCE VDP TO THLD 1.50 NM. JEVEL TO RW13: 3.00/57. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 1502 FT FROM THLD. |


- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- HOLD NW VERRA, RT, 138.00 INBOUND, 3100 FT. IN LIEU OF PT (IAF)
- FAC 138.00 FAF JEVEL/FOE 6.00 DME DIST FAF TO MAP _____ THLD 4.65
- MIN. ALT VERRA 3100, JEVEL 2600
- MSA FROM: FOE TACAN 360-180 3100, 180-360 3600, ESA W/IN 100 NM 3600

MAG VAR: 5E EPOCH YEAR: 1990

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-13 | 1600 | 3/4 | 535 | 1600 | 3/4 | 535 | 1600 | 1 1/4 | 535 | 1600 | 1 1/4 | 535 | 1600 | 1 1/4 | 535 |
| CIRCLING | 1600 | 1 | 522 | 1600 | 1 | 522 | 1600 | 1 1/2 | 522 | 1700 | 2 | 622 | 1720 | 2 1/4 | 642 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART PLANVIEW NOTE: NOT FOR CIVIL USE
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-13 CATS D/E VISIBILITY 1/4 SM.

| | | | | | | |
|------------------------------|------------------------------|-----------------------------|---|------------|---|---|
| CITY AND STATE TOPEKA, KS | ELEVATION: 1078 TDZE: 1065 | FACILITY IDENTIFIER: FOE | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: TACAN RWY 13, AMDT 4A 5 JANUARY 2017 | SUP |  | |
| | AIRPORT NAME: TOPEKA RGNL | | | AMDT | | 4 |
| | DATE | | | 07/02/2009 | | |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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TERMINAL ROUTES

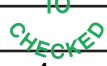
MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | MAP: BUMKE/FOE 0.79 DME FIX | | |
|--|---|---|--------------|--|--|--|
| TOP VORTAC PONDR/FOE 11.00 DME (IF/IAF) | PONDR/FOE 11.00 DME IFONA/FOE 5.00 DME | 164.79 / 18.60 304.00 / 6.00 (FOE R-124) | 3000 2500 | CLIMBING LEFT TURN TO 3000 HEADING 190 AND ON FOE TACAN R-213 TO STANC/19.00 DME AND HOLD. | | |
| | | | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 213.00 INBOUND. CHART IN PLANVIEW: MAXIMUM HOLDING AIRSPEED 230 KIAS. FAS OBST: 1250 AAO 385504N/0953437W 1260 AAO 385333N/0953404W CHART VDP AT 2.06 DME DISTANCE VDP TO THLD 1.27 NM. IFONA TO RW31: 3.15/58. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 2405 FT FROM THLD. | | |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) | | | | | | |
| 2. HOLD SE PONDR, LT, 304.00 INBOUND, 3000 FT. IN LIEU OF PT (IAF) | | | | | | |
| 3. FAC 304.00 FAF IFONA/FOE 5.00 DME _____ DIST FAF TO MAP _____ THLD 4.21 | | | | | | |
| 4. MIN. ALT PONDR 3000, IFONA 2500 | | | | | | |
| 8. MSA FROM: FOE TACAN 360-180 3100, 180-360 3600, ESA W/IN 100 NM 3600 | | | | MAG VAR: 5E EPOCH YEAR: 1990 | | |

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-31 | 1500 | 2400 | 463 | 1500 | 2400 | 463 | 1500 | 5000 | 463 | 1500 | 5000 | 463 | 1500 | 5000 | 463 | |
| CIRCLING | 1520 | 1 | 442 | 1580 | 1 | 502 | 1580 | 1 1/2 | 502 | 1700 | 2 | 622 | 1720 | 2 1/4 | 642 | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-31 CAT C/D/E VISIBILITY TO 1 3/8 SM.
CHART IN PLANVIEW: NOT FOR CIVIL USE.

| | | | | | | |
|------------------------------|------------------------------|-----------------------------|---|------|---|------------|
| CITY AND STATE TOPEKA, KS | ELEVATION: 1078 TDZE: 1037 | FACILITY IDENTIFIER: FOE | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: TACAN RWY 31, AMDT 4A 5 JANUARY 2017 | SUP |  | |
| | AIRPORT NAME: TOPEKA RGNL | | | AMDT | | 4 |
| | | | | DATE | | 07/02/2009 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|--|
| KBOOS (IF/IAF) | GASNE (FB) | 173.17 / 6.00 | 1700 | LNAV: RW17 |
| GASNE (FAF) | NUDLE/1.50 NM TO RW17 (FB) | 173.17 / 3.67 | | |
| NUDLE/1.50 NM TO RW17 | RW17 (MAP) (FO) | 173.17 / 1.50 | | |
| RW17 (MAP) | 400 MSL | 173.17 | | |
| 400 MSL | IRALE (FO) | | 2000 | CLIMB TO 2000 DIRECT IRALE AND HOLD. |
| | | | | ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.19 INBOUND. CHART FAS OBST: 105 TREE 300622N/0903447W CHART VDP AT 1.08 NM TO RW17. GASNE TO RW17: 3.00/50. CHART: CIRCLING ICON. |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD N KBOOS, RT, 173.17 INBOUND, 1800 FT. IN LIEU OF PT (IAF)**
3. FAC: 173.17 FAF: GASNE DIST FAF TO MAP: 5.17 THLD: 5.17
4. MIN. ALT: **KBOOS 1800, GASNE 1700, NUDLE/1.50 NM TO RW17 520**
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: **1W** 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 | 400 | 1 | 394 | 400 | 1 | 394 | 400 | 1 1/8 | 394 | | NA | | | | |
| CIRCLING | 700 | 1 | 693 | 700 | 1 | 693 | 820 | 2 1/2 | 813 | | NA | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT C 900-2 1/2
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LOUIS ARMSTRONG NEW ORLEANS INTL
 ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE LNAV CAT C VISIBILITY 1/4 SM.
 CHART NOTE: VDP NA WHEN USING LOUIS ARMSTRONG NEW ORLEANS INTL ALTIMETER SETTING.

| | | | | | |
|-------------------------------|---|---------|------------------------------|--|-------------------------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | TDZE: 6 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1A 5 JANUARY 2017 | SUP: AMDT: 1 DATED 10/15/2015 |
|-------------------------------|---|---------|------------------------------|--|-------------------------------------|

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. | 083/30 CW 263/30 (NOPT) 083/10 CW 263/10 | 083/10 CW 263/10 KBOOS (IF/IAF) (FB) | 2800 1800 |
| 2. | 263/30 CW 083/30 263/10 CW 083/10 | 263/10 CW 083/10 KBOOS (IF/IAF) (FO) | 3100 1800 |

| | | | | | |
|--------------------------------------|--|---------|-------------------------------------|---|--------------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | TDZE: 6 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1A 5 JANUARY 2017 | SUP: QUALITY |
| | | | | | AMDT: 4 1 |
| | | | | | DATED: 10/15/2015 |

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 - KAPS

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| KBOOS | 010 | KBOOS | HF | FO | | 173.2 | | | R | | | AA 01800 | | EE A |
| | 010 | KBOOS | IF | FB | | | | | | | | AA 01800 | | E I |
| | 020 | GASNE | TF | FB | 1.0 | 173.2 | | | | | | AA 01700 | | E F |
| | 021 | NUDLE | TF | FB | 0.3 | 173.2 | | 3.00 | | | | AA 00520 GS 00532 | | E S |
| | 030 | RW17 | TF | FO | 0.3 | 173.2 | | 3.00 | | | | AT 00054 | | GY M |
| | 040 | | CA | FB | | 173.2 | | | | | | AA 00400 | | M |
| | 050 | IRALE | DF | FO | 1.0 | | | | | | | AA 02000 | | EY |
| | 060 | IRALE | HM | FO | | 353.2 | | | R | | | AA 02000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| GASNE | N301040.81 | W0903549.68 |
| IRALE | N295356.45 | W0903311.21 |
| KBOOS | N301638.30 | W0903646.30 |
| NUDLE | N300702.21 | W0903515.11 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW17 | N300532.83 | W0903500.99 | 00004 | 50.0 |

| | | | | | |
|--------------------------------------|---------------------|--|----------------------|--|--------------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 | TDZE: 6 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: | PORT OF SOUTH LOUISIANA EXECUTIVE | RNAV | RNAV (GPS) RWY 17, AMDT 1A | 4 |
| | RGNL | | | 5 JANUARY 2017 | CHECKED 1 |
| | | | | | DATED: 10/15/2015 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|-----------------|---------------------|----------|--|
| IRALE (IF/IAF) | CHAPI (FB) | 353.19 / 6.00 | 1800 | LPV: DA LNAV/VNAV: DA LNAV: RW35 CLIMB TO 1800 DIRECT KBOOS AND HOLD. |
| CHAPI (FAF) | RW35 (MAP) (FO) | 353.19 / 4.96 | | |
| RW35 (MAP) | 276 MSL | 353.19 | | |
| 276 MSL | KBOOS (FO) | | 1800 | |

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 173.17 INBOUND.
CHART FAS OBST: 325 REFINERY 300355N/0903521W
DISTANCE TO THLD FROM 269 HAT: 0.61 NM.
CHART VDP AT 1.47 NM TO RW35*
***LNAV ONLY.**
WAAS CHANNEL # 87111
REFERENCE PATH ID: W35A
CHART: CIRCLING ICON.
LTP HAE: -24.4 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD S IRALE, RT, 353.19 INBOUND, 2000 FT. IN LIEU OF PT (IAF)**
3. FAC: 353.19 FAF: CHAPI DIST FAF TO MAP: 4.96 THLD: 4.96
4. MIN. ALT: **IRALE 2000, CHAPI 1800**
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1800 GS ALT AT: CHAPI 1800 OM: MM: IM:
7. GS ANGLE: 3.30 TCH: 55.0 **34:1 IS NOT CLEAR**
8. MSA FROM:

MAG VAR: **1W** 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 | 276 | 7/8 | 269 | 276 | 7/8 | 269 | 276 | 7/8 | 269 | | NA | | | | |
| LNAV/VNAV DA | 576 | 1 3/4 | 569 | 576 | 1 3/4 | 569 | 576 | 1 3/4 | 569 | | NA | | | | |
| LNAV MDA | 580 | 1 | 573 | 580 | 1 | 573 | 580 | 1 5/8 | 573 | | NA | | | | |
| CIRCLING | 700 | 1 | 693 | 700 | 1 | 693 | 820 | 2 1/2 | 813 | | NA | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
 CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT C 900-2 1/2

| | | | | |
|-------------------------------|---|------------------------------|--|---------------------------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 TDZE: 7 AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1A 5 JANUARY 2017 | SUP: 4 AMDT: 1 DATED 10/15/2015 |
|-------------------------------|---|------------------------------|--|---------------------------------------|

QUALITY

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: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LOUIS ARMSTRONG NEW ORLEANS INTL ALTIMETER SETTING AND INCREASE LPV DA TO 318 FEET, LNAV/VNAV DA TO 618 FEET ALL VISIBILITIES 1/8 SM; INCREASE ALL MDA 60 FEET AND LNAV VISIBILITY CAT C 1/8 SM.
CHART NOTE: BARO-VNAV AND VDP NA WITH LOUIS ARMSTRONG NEW ORLEANS INTL ALTIMETER SETTING.

| TAA | FROM | TO | ALT |
|-----|---|---|--------------|
| 1. | 263/30 CW 083/30 (NOPT) 263/10 CW 083/10 | 263/10 CW 083/10 IRALE (IF/IAF) (FB) | 2100 2000 |
| 2. | 083/30 CW 263/30 083/7 CW 263/7 | 083/7 CW 263/7 IRALE (IF/IAF) (FO) | 3100 2000 |

| | | | | | |
|--------------------------------------|--|---------|-------------------------------------|---|--------------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | TDZE: 7 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1A 5 JANUARY 2017 | SUP: 4 |
| | | | | | AMDT: CHECKED |
| | | | | | DATED: 10/15/2015 |

QUALITY
4
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 | KAPS |
| RUNWAY | RW35 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W35A |
| LTP/FTP LATITUDE | 300449.6365N |
| LTP/FTP LONGITUDE | 0903454.1725W |
| LTP/FTP ELLIPSOIDAL HEIGHT | -00244 |
| FPAP LATITUDE | 300618.1195N |
| FPAP LONGITUDE | 0903508.1490W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00055.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.30 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1184 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER BAD05174

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +00020 |
| FPAP ORTHOMETRIC HEIGHT | +00020 |

| | | | | |
|-------------------------------|---|------------------------------|--|-------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 TDZE: 7 AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1A 5 JANUARY 2017 | SUP: 4 |
| | | | | AMDT: CHECKED |
| | | | | DATED: 10/15/2015 |

QUALITY
4
CHECKED

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

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ARINC SUMMARY - KAPS

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| IRALE | 010 | IRALE | HF | FO | | 353.2 | | | R | | | AA 02000 | | EE A |
| | 010 | IRALE | IF | FB | | | | | | | | AA 02000 | | E I |
| | 020 | CHAPI | TF | FB | 1.0 | 353.2 | | | | | | AA 01800 | | E F |
| | 030 | RW35 | TF | FO | 0.3 | 353.2 | | 3.30 | | | | AT 00062 | | GY M |
| | 040 | | CA | FB | | 353.2 | | | | | | AA 00276 | | M |
| | 050 | KBOOS | DF | FO | 1.0 | | | | | | | AA 01800 | | EY |
| | 060 | KBOOS | HM | FO | | 173.2 | | | R | | | AA 01800 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CHAPI | N295953.97 | W0903407.52 |
| IRALE | N295356.45 | W0903311.21 |
| KBOOS | N301638.30 | W0903646.30 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW35 | N300449.64 | W0903454.17 | 00007 | 55 |

| | | | | |
|--------------------------------------|---|-------------------------------------|---|--------------------------|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 TDZE: 7 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1A 5 JANUARY 2017 | SUP: QUALITY |
| | AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE | | | AMDT: 4 |
| | RGNL | | | DATED: 10/15/2015 |

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated
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| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|--|-----------------------|----------------|
| RESERVE, LA | PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | 5 JANUARY 2017 | 1A |

TAKEOFF MINIMUMS:

RWY 17: 300-1 ¾ OR STANDARD WITH MINIMUM CLIMB OF 240 FT PER NM TO 400.

RWY 35: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 17: CLIMB HEADING 173.18 TO 1400 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 17: BUSH 43 FT FROM DER, 362 FT RIGHT OF CENTERLINE, 3 FT AGL/8 FT MSL. TREE 131 FT FROM DER, 497 FT LEFT OF CENTERLINE, 22 FT AGL/22 FT MSL. POLES BEGINNING 1377 FT FROM DER, 109 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/46 FT MSL. POLES BEGINNING 1482 FT FROM DER, 135 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/46 FT MSL. TRANSMISSION TOWERS BEGINNING 1706 FT FROM DER, 184 FT RIGHT OF CENTERLINE, UP TO 118 FT AGL/124 FT MSL. TRANSMISSION TOWERS BEGINNING 2156 FT FROM DER, 151 FT LEFT OF CENTERLINE, UP TO 73 FT AGL/78 FT MSL. TRANSMISSION TOWER 3209 FT FROM DER, 214 FT RIGHT OF CENTERLINE, 86 FT AGL/93 FT MSL. TRANSMISSION TOWER 3293 FT FROM DER, 364 FT LEFT OF CENTERLINE, 92 FT AGL/98 FT MSL. ELEVATOR 1.44 NM FROM DER, 114 FT RIGHT OF CENTERLINE, 250 FT AGL/266 FT MSL.

NOTE: RWY 35: RISING TERRAIN 14 FT FROM DER, 432 FT RIGHT OF CENTERLINE, 7 FT MSL. RISING TERRAIN 14 FT FROM DER, 260 FT LEFT OF CENTERLINE, 7 FT MSL. TREES BEGINNING 424 FT FROM DER, 540 FT LEFT OF CENTERLINE, UP TO 74 FT AGL/78 FT MSL. TREES BEGINNING 811 FT FROM DER, 621 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/86 FT MSL. TREES BEGINNING 1091 FT FROM DER, 44 FT LEFT OF CENTERLINE, UP TO 87 FT AGL/91 FT MSL. TREES BEGINNING 1142 FT FROM DER, 100 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/48 FT MSL. TREES BEGINNING 1438 FT FROM DER, 60 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/92 FT MSL. TREES BEGINNING 1526 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/96 FT MSL. TREES BEGINNING 2394 FT FROM DER, 40 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/104 FT MSL. TREES BEGINNING 2698 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 98 FT AGL/102 FT MSL.

CONTROLLING OBSTACLES:

RWY 17: 266 FT MSL ANTENNA 300323.50N/0903441.88W.

OBSTACLES MANDATING ROUTE DEVELOPMENT: RWY 17 - 2003 FT MSL TOWER 295710.00N/0904327.00W.

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

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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 |
| RESERVE, LA | PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | 5 JANUARY 2017 | 1A |

REMARKS:

FLIGHT INSPECTED BY:

DAMIEN VERELLEN

Digitally signed by

STEVEN A VARGAS

Nov 08, 2016

OFFICE SYMBOL:

FICO

DATE:

11/04/2016

DEVELOPED BY:

PABLO ORTIZ

PABLO ORTIZ JR Digitally signed by PABLO ORTIZ JR
Date: 2016.09.19 12:35:46 -05'00'

OFFICE SYMBOL:

AJV-5421

DATE:

07/26/2016

APPROVED BY:

TONY LAWSON

Digitally signed by

STEVEN A VARGAS

Nov 08, 2016

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:

ZHU, MSY DEP CON, AMGR

CHANGES - REASONS:

1. AIRPORT NAME FROM ST JOHN THE BAPTIST PARISH TO PORT OF SOUTH LOUISIANA EXECUTIVE RGNL - AIRPORT REQUESTED.
2. CORRECTED TYPO'S IN RWY 17 NOTES SECTION - TYPO'S.



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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |

MAP: RQR VOR/DME

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT RQR VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:

**HOLD SE, RT, 335.00 INBOUND.
 CHART FAS OBST: 391 REFINERY 300400N/0903550W
 CHART VDP AT 2.55 DME
 DISTANCE VDP TO THLD 2.03 NM.
 CHART: CIRCLING ICON.
 FAC CROSSES RWY C/L EXTENDED 3861 FT FROM THLD.**

1. PT L SIDE OF COURSE 155.00 OUTBOUND 2000 FT WITHIN 10 MILES OF RQR VOR/DME (IAF)
2. _____
3. FAC 335.00 FAF _____ DIST FAF TO MAP _____ THLD _____
4. MIN. ALT _____
8. MSA FROM: **RQR VOR/DME 3100**

MAG VAR: **2E** EPOCH YEAR: **1995**

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-35 | 700 | 1 | 693 | 700 | 1 | 693 | 700 | 2 | 693 | | NA | | | | | |
| CIRCLING | 700 | 1 | 693 | 700 | 1 | 693 | 820 | 2 1/2 | 813 | | NA | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LOUIS ARMSTRONG NEW ORLEANS INTL ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE S-35 AND CIRCLING CAT B VISIBILITY 1/4 SM. @ CAT C 900-2 1/2
 CHART NOTE: VDP NA WHEN USING LOUIS ARMSTRONG NEW ORLEANS INTL ALTIMETER SETTING.

| | | | | |
|--------------------------------------|--|------------------------------------|---|---|
| CITY AND STATE RESERVE, LA | ELEVATION: 7 TDZE: 7 AIRPORT NAME: PORT OF SOUTH LOUISIANA EXECUTIVE RGNL | FACILITY IDENTIFIER: RQR | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 35, AMDT 1A 5 JANUARY 2017 | SUP 4 AMDT CHECKED DATE 10/15/2015 |
|--------------------------------------|--|------------------------------------|---|---|

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|---|
| GEEMO (IAF) | MYTHY (FB) | 167.84 / 2.99 | 2000 | LPV: DA LNAV/VNAV: DA LNAV: RW11 |
| MYTHY (IF) | HIPMA (FB) | 113.77 / 3.02 | 1600 | |
| HIPMA (FAF) | XONIQ/2.10 NM TO RW11 (FB) | 113.80 / 2.08 | | CLIMB TO 2100 DIRECT ZAKLY AND HOLD. |
| XONIQ/2.10 NM TO RW11 | RW11 (MAP) (FO) | 113.80 / 2.10 | | |
| RW11 (MAP) | 265 MSL | 113.80 | | |
| 265 MSL | ZAKLY (FO) | | 2100 | ADDITIONAL FLIGHT DATA: HOLD SE, RT, 293.98 INBOUND. CHART FAS OBST: 201 BRIDGE 385917N/0762136W CHART 379 BRIDGE 385942N/0762304W. CHART: 377 BRIDGE 385938N/0762245W DISTANCE TO THLD FROM 250 HAT: 0.59 NM. CHART VDP AT 1.30 NM TO RW11* *LNAV ONLY. WAAS CHANNEL # 56639 REFERENCE PATH ID: W11A CHART CIRCLING ICON. CHART: WASHINGTON DC METROPOLITAN SFRA. LTP HAE: -32 M |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT MYTHY
3. FAC: 113.80 FAF: HIPMA DIST FAF TO MAP: 4.18 THLD: 4.18
4. MIN. ALT: MYTHY 2000, HIPMA 1600, XONIQ/2.10 NM TO RW11 820*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1600 GS ALT AT: HIPMA 1600 OM: MM: IM:
7. GS ANGLE: 3.50 TCH: 40.0 34:1 IS CLEAR
8. MSA FROM: RW11 2600

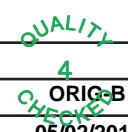
MAG VAR: 11W EPOCH YEAR: 2000

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 | 1 | 250 | 265 | 1 | 250 | | NA | | | NA | | | | |
| LNAV/VNAV DA | 269 | 1 | 254 | 269 | 1 | 254 | | NA | | | NA | | | | |
| LNAV MDA | 460 | 1 | 445 | 460 | 1 | 445 | | NA | | | NA | | | | |
| CIRCLING | 500 | 1 | 485 | 800 | 1 | 785 | | NA | | | NA | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING EASTON ALTIMETER SETTING.
 CHART NOTE: CIRCLING RWY 29 NA AT NIGHT.
 CHART NOTE: DME/DME RNP-0.3 NA.
 (CONTINUED ON PAGE 2)

| | | | | |
|------------------------------------|---|------------------------------|---|--|
| CITY AND STATE STEVENSVILLE, MD | ELEVATION: 15 TDZE: 15 AIRPORT NAME: BAY BRIDGE | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 5 JANUARY 2017 | SUP: 4 AMDT: ORIG-B DATED 05/02/2013 |
|------------------------------------|---|------------------------------|---|--|



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 GEEMO ON V123-445 EASTBOUND.

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EASTON ALTIMETER SETTING: INCREASE LPV DA TO 310 FEET; LNAV/VNAV DA TO 314 FEET; INCREASE ALL MDA 60 FEET AND CIRCLING CAT B VISIBILITY 1/4 SM.

CITY AND STATE

STEVENSVILLE, MD

ELEVATION: 15

TDZE: 15

AIRPORT NAME:

BAY BRIDGE

FACILITY IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 11, AMDT 1

5 JANUARY 2017

SUP:

QUALITY
4

AMDT: **ORIG-B**

CHECKED

DATED: **05/02/2013**

**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

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | W29 |
| RUNWAY | RW11 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W11A |
| LTP/FTP LATITUDE | 385838.2295N |
| LTP/FTP LONGITUDE | 0762004.6335W |
| LTP/FTP ELLIPSOIDAL HEIGHT | -00320 |
| FPAP LATITUDE | 385818.3665N |
| FPAP LONGITUDE | 0761813.2520W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00040.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.50 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1920 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | DF5D96E7 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K6 |
| LTP ORTHOMETRIC HEIGHT | +00016 |
| FPAP ORTHOMETRIC HEIGHT | +00016 |

| | | | | |
|---|---|-------------------------------------|--|--------------------------|
| CITY AND STATE STEVENSVILLE, MD | ELEVATION: 15 TDZE: 15 AIRPORT NAME: BAY BRIDGE | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 5 JANUARY 2017 | SUP: 4 |
| | | | | AMDT: ORIG-B |
| | | | | DATED: 05/02/2013 |

QUALITY
4
CHECKED

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

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ARINC SUMMARY - W29

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| GEEMO | 010 | GEEMO | IF | FB | | | | | | | | | | E A |
| GEEMO | 020 | MYTHY | TF | FB | 1.0 | 167.8 | | | | | | AA 02000 | | EE B |
| | 010 | MYTHY | IF | FB | | | | | | | | AA 02000 | | E I |
| | 020 | HIPMA | TF | FB | 1.0 | 113.8 | | | | RW11 | | AA 01600 | | E F |
| | 021 | XONIQ | TF | FB | 0.3 | 113.8 | | 3.50 | | | | AA 00820 GS 00826 | | E S |
| | 030 | RW11 | TF | FO | 0.3 | 113.8 | | 3.50 | | | | AT 00045 | | GY M |
| | 040 | | CA | FB | | 113.8 | | | | | | AA 00265 | | M |
| | 050 | ZAKLY | DF | FO | | | | | | | | AA 02100 | | EY |
| | 060 | ZAKLY | HM | FO | | 294.0 | | | R | | | AA 02100 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| GEEMO | N390259.06 | W0763035.33 |
| HIPMA | N385934.03 | W0762518.51 |
| MYTHY | N390014.12 | W0762904.91 |
| XONIQ | N385906.27 | W0762242.17 |
| ZAKLY | N385617.92 | W0760701.44 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW11 | N385838.23 | W0762004.63 | 00005 | |

| | | | | |
|---|--------------------------------------|-------------------------------------|--|--------------------------|
| CITY AND STATE STEVENSVILLE, MD | ELEVATION: 15 TDZE: 15 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 5 JANUARY 2017 | SUP: 4 |
| | AIRPORT NAME: BAY BRIDGE | | | AMDT: ORIG |
| | | | | DATED: 01/18/2007 |

QUALITY

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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-----------------------|----------------------------|---------------------|----------|
| AGARD (IAF) | ZAKLY (NOPT) (FB) | 210.34 / 6.69 | 2100 |
| ZAKLY (IF/IAF) | AZLOM (FB) | 293.98 / 5.15 | 1600 |
| AZLOM (FAF) | XITPY/2.20 NM TO RW29 (FB) | 293.93 / 2.65 | |
| XITPY/2.20 NM TO RW29 | RW29 (MAP) (FO) | 293.93 / 2.20 | |
| RW29 (MAP) | 415 MSL | 293.93 | |
| 415 MSL | ZAKLY (FO) | | 2100 |

LNAV: RW29

CLIMBING RIGHT TURN TO 2100 DIRECT ZAKLY AND HOLD.

ADDITIONAL FLIGHT DATA:
FAS OBST: 219 AAO 385740N/0761742W
CHART 444 COMMUNICATION TWR 385802N/0761530W.
CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE ZAKLY, RT, 293.98 INBOUND, 2100 FT. IN LIEU OF PT (IAF)**
- FAC: 293.93 FAF: AZLOM DIST FAF TO MAP: 4.85 THLD: 4.85
- MIN. ALT: **ZAKLY 2100, AZLOM 1600, XITPY/2.20 NM TO RW29 740**
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: **34:1 IS NOT CLEAR**
- MSA FROM: **RW29 2600**

MAG VAR: **11W** 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 |
| LNAV MDA | 480 | 1 | 465 | 480 | 1 | 465 | | NA | | | NA | | | | |
| CIRCLING | 500 | 1 | 485 | 800 | 1 | 785 | | NA | | | NA | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AGARD ON V44 EASTBOUND.
 CHART NOTE: STRAIGHT-IN RWY 29 AND CIRCLING RWY 29 NA AT NIGHT.
 (CONTINUED ON PAGE 2)

| | | | | |
|---|--|-------------------------------------|---|--|
| CITY AND STATE STEVENSVILLE, MD | ELEVATION: 15 TDZE: 15 AIRPORT NAME: BAY BRIDGE | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29, AMDT 1 5 JANUARY 2017 | SUP: 4 AMDT: CORIG DATED 01/18/2007 |
|---|--|-------------------------------------|---|--|

QUALITY
CHECKED

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: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EASTON ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND CIRCLING CAT B VISIBILITY 14/ SM.

| | | | | | |
|---|---|----------|-------------------------------------|---|--------------------------|
| CITY AND STATE STEVENSVILLE, MD | ELEVATION: 15 AIRPORT NAME: BAY BRIDGE | TDZE: 15 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29, AMDT 1 5 JANUARY 2017 | SUP: 4 |
| | | | | | AMDT: ORIG |
| | | | | | DATED: 01/18/2007 |

QUALITY
4
ORIG
CHECKED

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

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ARINC SUMMARY - W29

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| AGARD | 010 | AGARD | IF | FB | | | | | | | | | | E A |
| AGARD | 020 | ZAKLY | TF | FB | 1.0 | 210.3 | | | | | | AA 02100 | | EE B |
| ZAKLY | 010 | ZAKLY | HF | FO | | 294.0 | | | R | | | AA 02100 | | EE A |
| | 010 | ZAKLY | IF | FB | | | | | | | | AA 02100 | | E I |
| | 020 | AZLOM | TF | FB | 1.0 | 294.0 | | | | RW29 | | AA 01600 | | E F |
| | 021 | XITPY | TF | FB | 0.3 | 293.9 | | | | | | AA 00740 | | E S |
| | 030 | RW29 | TF | FO | 0.3 | 293.9 | | 0.00 | | | | AT 00480 | | GY M |
| | 040 | | CA | FB | | 293.9 | | | | | | AA 00415 | | M |
| | 050 | ZAKLY | DF | FO | | | | | R | | | AA 02100 | | EY |
| | 060 | ZAKLY | HM | FO | | 294.0 | | | R | | | AA 02100 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| AGARD | N390236.89 | W0760411.14 |
| AZLOM | N385727.18 | W0761327.24 |
| XITPY | N385802.80 | W0761646.15 |
| ZAKLY | N385617.92 | W0760701.44 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW29 | N385832.26 | W0761931.14 | 00015 | |

| | | | | |
|---|--------------------------------------|----------------------|--|--------------------------|
| CITY AND STATE STEVENSVILLE, MD | ELEVATION: 15 TDZE: 15 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: BAY BRIDGE | RNAV | RNAV (GPS) RWY 29, AMDT 1 5 JANUARY 2017 | AMDT: 4 |
| | | | | DATED: 01/18/2007 |

QUALITY
4
CORRECTED

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|-----------------|---------------------|----------|---|
| PLN VORTAC | WETMA (FO) | 340.06 / 10.26 | 2400 | LNAV: RW10 |
| WETMA (IF/IAF) | YANUN (FB) | 101.42 / 5.97 | 2300 | |
| YANUN (FAF) | RW10 (MAP) (FO) | 101.52 / 5.01 | | |
| RW10 (MAP) | 1060 MSL | 101.52 | | |
| 1060 MSL | WEVNU (FO) | | 4000 | CLIMB TO 4000 DIRECT WEVNU AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD E, RT, 281.81 INBOUND. CHART FAS OBST: 789 TREE 454611N/0843105W CHART PIKE WEST MOA. YANUN TO RW10: 3.00/40. CHART CIRCLING ICON. CHART CHEBOYGAN AWOS-3. |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD W WETMA, RT, 101.42 INBOUND, 2300 FT. IN LIEU OF PT (IAF)**
- FAC: 101.52 FAF: YANUN DIST FAF TO MAP: 5.01 THLD: 5.01
- MIN. ALT: **WETMA 2300, YANUN 2300**
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: **34:1 IS CLEAR**
- MSA FROM: **RW10 2900**

MAG VAR: **6W** EPOCH YEAR: **1985**

MINIMUMS

| | | | | | | | | | | | | | | | |
|---|--|----------|------------|-------------|----------|------------|--------|-----------|---------|--------|-----------|---------|--------|-----|---------|
| TAKEOFF: <u> </u> SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| CATEGORY <u>====></u> | 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 | 1060 | 1 | 396 | 1060 | 1 | 396 | | NA | | | NA | | | | |
| CIRCLING | 1120 | 1 | 456 | 1120 | 1 | 456 | | NA | | | NA | | | | |

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PLN VORTAC AIRWAY RADIALS 295 CW 023.
CHART NOTE: USE CHEBOYGAN ALTIMETER SETTING.



| | | | | |
|--|---|-------------------------------------|---|--|
| CITY AND STATE BOIS BLANC ISLAND, MI | ELEVATION: 664 TDZE: 664 AIRPORT NAME: BOIS BLANC ISLAND | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 1 5 JANUARY 2017 | SUP: AMDT: ORIG DATED 11/13/2014 |
|--|---|-------------------------------------|---|--|

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

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ARINC SUMMARY - 6Y1

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| PLN | 010 | PLN | IF | FB | | | | | | | | | | V |
| PLN | 020 | WETMA | TF | FO | 1.0 | 340.1 | | | | | | AA 02400 | | EY |
| PLN | 030 | WETMA | HF | FO | | 101.4 | | | R | | | AA 02300 | | EE A |
| | 010 | WETMA | IF | FB | | | | | | | | AA 02300 | | E I |
| | 020 | YANUN | TF | FB | 1.0 | 101.4 | | | | RW10 | | AA 02300 | | E F |
| | 030 | RW10 | TF | FO | 0.3 | 101.5 | | 3.00 | | | | AT 00704 | | GY M |
| | 040 | | CA | FB | | 101.5 | | | | | | AA 01060 | | M |
| | 050 | WEVNU | DF | FO | 1.0 | | | | | | | AA 04000 | | EY |
| | 060 | WEVNU | HM | FO | | 281.8 | | | R | | | AA 04000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| PLN | N453750.33 | W0843950.79 |
| WETMA | N454703.71 | W0844615.61 |
| WEVNU | N454451.30 | W0841411.22 |
| YANUN | N454629.53 | W0843745.84 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW10 | N454600.36 | W0843038.29 | 00664 | 40 |



| | | | | |
|--|---|-------------------------------------|--|--------------------------|
| CITY AND STATE BOIS BLANC ISLAND, MI | ELEVATION: 664 TDZE: 664 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: BOIS BLANC ISLAND | | RNAV (GPS) RWY 10, AMDT 1 | AMDT: ORIG |
| | | | 5 JANUARY 2017 | DATED: 11/13/2014 |

**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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|---------------------------------------|------------------------------|---|----------|
| CMX VOR/DME | GALEY OM/I-CMX 5.54 DME | 135.51 / 4.75 | 2800 |
| PEVXI/CMX VOR/DME 17.00 DME (IAF) | MUMBY/I-CMX 14.79 DME (NOPT) | 357.87 / 2.36 (HDG) & 312.87 / 1.24 (I-CMX) | 2500 |
| CIBPA/CMX VOR/DME 14.00 DME CCW (IAF) | MUMBY/I-CMX 14.79 DME (NOPT) | 14.00 DME ARC (CMX LR-142) | 2500 |
| MUMBY/I-CMX 14.79 DME (IF) | GALEY OM/I-CMX 5.54 DME | 312.87 / 9.25 (I-CMX) | 2500 |

ILS: DA
LOC: 4.30 NM AFTER GALEY OM/I-CMX 5.54 DME OR AT I-CMX 1.24 DME FIX

CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3100 DIRECT CMX VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 135.51 INBOUND.
CHART FAS OBST: 1107 TREE 470937N/0882813W
CHART VDP AT 2.04 DME*
DISTANCE VDP TO THLD 0.80 NM.
*LOC ONLY.
CHART (CFVPV) AT INTERSECTION OF PEVXI DR LEG AND INTERMEDIATE COURSE.
CHART CMX R-171 AT CIBPA.
CHART CIRCLING ICON.

- PT L SIDE OF COURSE 132.87 OUTBOUND 2800 FT WITHIN 10 MILES OF GALEY OM/I-CMX 5.54 DME (IAF)
-
- FAC: 312.87 FAF: GALEY OM/I-CMX 5.54 DME DIST FAF TO MAP: 4.30 THLD: 4.30
- MIN. ALT: GALEY OM 2500
- DIST TO THLD FROM OM: 4.30 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 800
- MIN GS INCPT: 2500 GS ALT AT: - OM: 2494 MM: - IM: -
- GS ANGLE: 3.00 TCH: 46.1
- MSA FROM: CMX VOR/DME 3100

MAG VAR: **2W** EPOCH YEAR: **1985**

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 31 | 1270 | 1/2 | 200 | 1270 | 1/2 | 200 | 1270 | 1/2 | 200 | 1270 | 1/2 | 200 | | | |
| S-LOC 31 | 1360 | 1/2 | 290 | 1360 | 1/2 | 290 | 1360 | 1/2 | 290 | 1360 | 1/2 | 290 | | | |
| CIRCLING | 1560 | 1 | 465 | 1600 | 1 | 505 | 1680 | 1 1/2 | 585 | 1820 | 2 1/4 | 725 | | | |

NOTES:
CHART PLANVIEW NOTE: DME REQUIRED.
CHART PROFILE NOTE: USE I-CMX DME WHEN ON LOCALIZER COURSE.

CAT D 800-2 1/4
@ CAT D 800-2 1/4



| | | | | |
|--------------------------------------|--|--------------------------------------|--|--|
| CITY AND STATE HANCOCK, MI | ELEVATION: 1095 TDZE: 1070 AIRPORT NAME: HOUGHTON COUNTY MEMORIAL | FACILITY IDENTIFIER: I-CMX | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 31, AMDT 15 5 JANUARY 2017 | SUP: AMDT: 14 DATED 09/25/2008 |
|--------------------------------------|--|--------------------------------------|--|--|

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.

(This area is intentionally left blank for the instrument approach procedure.)



| | | | | |
|--------------------------------------|--|--------------------------------------|---|--------------------------|
| CITY AND STATE HANCOCK, MI | ELEVATION: 1095 TDZE: 1070 AIRPORT NAME: HOUGHTON COUNTY MEMORIAL | FACILITY IDENTIFIER: I-CMX | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 31, AMDT 15 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 14 |
| | | | | DATED: 09/25/2008 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|--|
| CMX VOR/DME | FAXET (FO) | 248.34 / 12.25 | 3700 | LPV: DA LNAV/VNAV: DA LNAV: RW07 |
| FAXET (IF/IAF) | CEDAG (FB) | 068.68 / 6.00 | 2900 | |
| CEDAG (FAF) | WUMRO/2.90 NM TO RW07 (FB) | 068.78 / 2.71 | | CLIMB TO 3700 DIRECT ZORIV AND HOLD. |
| WUMRO/2.90 NM TO RW07 | RW07 (MAP) (FO) | 068.78 / 2.90 | | |
| RW07 (MAP) | 1431 MSL | 068.78 | | |
| 1431 MSL | ZORIV (FO) | | 3700 | ADDITIONAL FLIGHT DATA: HOLD E, RT, 249.07 INBOUND. CHART FAS OBST: 1380 TWR 470827N/0883227W CHART BIG BEAR MOA. CHART ONTONAGON MOA. DISTANCE TO THLD FROM 364 HAT: 1.00 NM. CHART VDP AT 1.72 NM TO RW07* *LNAV ONLY. WAAS CHANNEL # 58233 REFERENCE PATH ID: W07A CHART CIRCLING ICON. LTP HAE: 288.7 M |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W FAXET, RT, 068.68 INBOUND, 3700 FT. IN LIEU OF PT (IAF)
3. FAC: 068.78 FAF: CEDAG DIST FAF TO MAP: 5.61 THLD: 5.61
4. MIN. ALT: FAXET 3700, CEDAG 2900, WUMRO/2.90 NM TO RW07 2020*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2900 GS ALT AT: CEDAG 2900 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR
8. MSA FROM: RW07 3300

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 | | |
| | 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 | 1431 | 1 1/4 | 364 | 1431 | 1 1/4 | 364 | 1431 | 1 1/4 | 364 | 1431 | 1 1/4 | 364 | | | |
| LNAV/VNAV DA | 1598 | 1 3/4 | 531 | 1598 | 1 3/4 | 531 | 1598 | 1 3/4 | 531 | 1598 | 1 3/4 | 531 | | | |
| LNAV MDA | 1640 | 1 | 573 | 1640 | 1 | 573 | 1640 | 1 3/4 | 573 | 1640 | 1 3/4 | 573 | | | |
| CIRCLING | 1640 | 1 | 545 | 1640 | 1 | 545 | 1680 | 1 3/4 | 585 | 1820 | 2 1/4 | 725 | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C @ CAT D 800-2 1/4 (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CMX VOR/DME AIRWAY RADIALS 171 CW 332.
 (CONTINUED ON PAGE 2)



| | | | | |
|-------------------------------|---|------------------------------|---|--------------------------------------|
| CITY AND STATE HANCOCK, MI | ELEVATION: 1095 TDZE: 1067 AIRPORT NAME: HOUGHTON COUNTY MEMORIAL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1B 5 JANUARY 2017 | SUP: AMDT: 1A DATED 04/02/2015 |
|-------------------------------|---|------------------------------|---|--------------------------------------|

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 PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.



| | | | | |
|--------------------------------------|---|-------------------------------------|--|--------------------------|
| CITY AND STATE HANCOCK, MI | ELEVATION: 1095 TDZE: 1067 AIRPORT NAME: HOUGHTON COUNTY MEMORIAL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1A |
| | | | | DATED: 04/02/2015 |

**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 | KCMX |
| RUNWAY | RW07 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W07A |
| LTP/FTP LATITUDE | 470951.4040N |
| LTP/FTP LONGITUDE | 0882955.5980W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02887 |
| FPAP LATITUDE | 471026.3720N |
| FPAP LONGITUDE | 0882755.4960W |
| 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 | 1168 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | C5A27520 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +03228 |
| FPAP ORTHOMETRIC HEIGHT | +03228 |



| | | | | |
|--------------------------------------|---|-------------------------------------|--|--------------------------|
| CITY AND STATE HANCOCK, MI | ELEVATION: 1095 TDZE: 1067 AIRPORT NAME: HOUGHTON COUNTY MEMORIAL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1A |
| | | | | DATED: 04/02/2015 |

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 - KCMX

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| CMX | 010 | CMX | IF | FB | | | | | | | | | | V |
| CMX | 020 | FAXET | TF | FO | 2.0 | 248.3 | | | | | | AA 03700 | | EY |
| CMX | 030 | FAXET | HF | FO | | 068.7 | | | R | | | AA 03700 | | EE A |
| | 010 | FAXET | IF | FB | | | | | | | | AA 03700 | | E I |
| | 020 | CEDAG | TF | FB | 1.0 | 068.7 | | | | RW07 | | AA 02900 | | E F |
| | 021 | WUMRO | TF | FB | 0.3 | 068.8 | | 3.00 | | | | AA 02020 GS 02038 | | E S |
| | 030 | RW07 | TF | FO | 0.3 | 068.8 | | 3.00 | | | | AT 01114 | | GY M |
| | 040 | | CA | FB | | 068.8 | | | | | | AA 01431 | | M |
| | 050 | ZORIV | DF | FO | | | | | | | | AA 03700 | | EY |
| | 060 | ZORIV | HM | FO | | 249.1 | | | R | | | AA 03700 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CMX | N471012.93 | W0882907.42 |
| CEDAG | N470739.03 | W0883728.78 |
| FAXET | N470516.88 | W0884532.94 |
| WUMRO | N470843.02 | W0883350.02 |
| ZORIV | N471436.09 | W0881333.03 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW07 | N470951.40 | W0882955.60 | 01059 | 55 |



| | | | | |
|--------------------------------------|--|---|--|--------------------------|
| CITY AND STATE HANCOCK, MI | ELEVATION: 1095 TDZE: 1067 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 7, AMDT 1B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: HOUGHTON COUNTY MEMORIAL | | | AMDT: 1A |
| | | | | DATED: 04/02/2015 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|---|----------------------------|---------------------|----------|---|
| GOTHE | YEDUT (FO) | 204.00 / 3.05 | 2900 | LPV: DA LNAV/VNAV: DA LNAV: RW35 CLIMB TO 2900 DIRECT BOYAY AND HOLD. |
| HIBLO | YEDUT (FO) | 110.04 / 6.04 | 2900 | |
| MCW VOR/DME (IAF) | YEDUT (NOPT) (FB) | 000.35 / 24.35 | 2900 | |
| YEDUT (IF/IAF) | ZUTIX (FB) | 347.22 / 5.97 | 2800 | |
| ZUTIX (FAF) | BIGKA/1.80 NM TO RW35 (FB) | 347.21 / 2.88 | | |
| BIGKA/1.80 NM TO RW35 (SEE FORM 8260-10) | RW35 (MAP) (FO) | 347.21 / 1.80 | | ADDITIONAL FLIGHT DATA: HOLD N, RT, 167.14 INBOUND. CHART FAS OBST: 1415 TWR 433956N/0932225W CHART 1524 TOWER 433740N/0932150W. DISTANCE TO THLD FROM 250 HAT: 0.63 NM. CHART VDP AT 0.98 NM TO RW35* *LNAV ONLY. WAAS CHANNEL # 53625 REFERENCE PATH ID: W35A LTP HAE: 355.2 M |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD **S** YEDUT, RT, 347.22 INBOUND, 2900 FT. IN LIEU OF PT (IAF)
3. FAC: 347.21 FAF: ZUTIX DIST FAF TO MAP: 4.68 THLD: 4.68
4. MIN. ALT: **YEDUT 2900, ZUTIX 2800, BIGKA/1.80 NM TO RW35 1880***
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2800 GS ALT AT: ZUTIX 2800 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS NOT CLEAR
8. MSA FROM: **RW35 3400**

MAG VAR: 1E 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 | 1511 | 3/4 | 250 | 1511 | 3/4 | 250 | 1511 | 3/4 | 250 | 1511 | 3/4 | 250 | | | |
| LNAV/VNAV DA | 1576 | 1 | 315 | 1576 | 1 | 315 | 1576 | 1 | 315 | 1576 | 1 | 315 | | | |
| LNAV MDA | 1720 | 1 | 459 | 1720 | 1 | 459 | 1720 | 1 3/8 | 459 | 1720 | 1 3/8 | 459 | | | |
| CIRCLING | 1780 | 1 | 519 | 1780 | 1 | 519 | 1780 | 1 1/2 | 519 | 1820 | 2 | 559 | | | |

NOTES:
 CHART NOTE: CIRCLING TO RWY 5/23 NA AT NIGHT.
 CHART NOTE: BARO-VNAV NA WHEN USING AUSTIN ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -28C (-18F) OR ABOVE 36C (96F).
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY
24
CHECKED

| | | | | |
|---|---|-------------------------------------|---|--|
| CITY AND STATE ALBERT LEA, MN | ELEVATION: 1261 TDZE: 1261 AIRPORT NAME: ALBERT LEA MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1B 5 JANUARY 2017 | SUP: AMDT: 1A DATED 05/29/2014 |
|---|---|-------------------------------------|---|--|

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.

TERMINAL ROUTES, (CONT.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-------------|------------|----------------------------|-----------------|
| RW35 (MAP) | 1511 MSL | 347.21 | |
| 1511 MSL | BOYAY (FO) | | 2900 |

NOTES, (CONT.):

- CHART NOTE: DME/DME RNP-0.3 NA.
- CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MCW VOR/DME AIRWAY RADIALS 278 CW 075.
- CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET}).
- CHART NOTE: VDP NA WITH AUSTIN ALTIMETER SETTING.
- CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
- CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUSTIN ALTIMETER SETTING AND INCREASE ALL DA 48 FEET AND ALL MDA 60 FEET; INCREASE LPV AND LNAV/VNAV VISIBILITY 1/4 MILE ALL CATS.



| | | | | | |
|---|--|------------|-------------------------------------|---|--------------------------|
| CITY AND STATE ALBERT LEA, MN | ELEVATION: 1261 AIRPORT NAME: ALBERT LEA MUNI | TDZE: 1261 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1B 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 1A |
| | | | | | DATED: 05/29/2014 |

**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 | KAEL |
| RUNWAY | RW35 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W35A |
| LTP/FTP LATITUDE | 434027.5190N |
| LTP/FTP LONGITUDE | 0932159.8895W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +03552 |
| FPAP LATITUDE | 434154.7400N |
| FPAP LONGITUDE | 0932225.0300W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00050.0 |
| 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 C2C3D088

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K3 |
| LTP ORTHOMETRIC HEIGHT | +03844 |
| FPAP ORTHOMETRIC HEIGHT | +03844 |

QUALITY
24
CHECKED

| | | | | | | |
|---|---|------------|-------------------------------------|---|--------|-------------------|
| CITY AND STATE ALBERT LEA, MN | ELEVATION: 1261 | TDZE: 1261 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1B 5 JANUARY 2017 | SUP: | |
| | AIRPORT NAME: ALBERT LEA MUNI | | | | AMDT: | 1A |
| | | | | | DATED: | 05/29/2014 |

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

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ARINC SUMMARY - Kael

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| GOTHE | 010 | GOTHE | IF | FB | | | | | | | | | | E |
| GOTHE | 020 | YEDUT | TF | FO | 2.0 | 204.0 | | | | | | AA 02900 | | EY |
| GOTHE | 030 | YEDUT | HF | FO | | 347.2 | | | R | | | AA 02900 | | EE A |
| HIBLO | 010 | HIBLO | IF | FB | | | | | | | | | | E |
| HIBLO | 020 | YEDUT | TF | FO | 2.0 | 110.0 | | | | | | AA 02900 | | EY |
| HIBLO | 030 | YEDUT | HF | FO | | 347.2 | | | R | | | AA 02900 | | EE A |
| MCW | 010 | MCW | IF | FB | | | | | | | | | | V A |
| MCW | 020 | YEDUT | TF | FB | 1.0 | 000.4 | | | | | | AA 02900 | | EE B |
| | 010 | YEDUT | IF | FB | | | | | | | | AA 02900 | | E I |
| | 020 | ZUTIX | TF | FB | 1.0 | 347.2 | | | | RW35 | | AA 02800 | | E F |
| | 021 | BIGKA | TF | FB | 0.3 | 347.2 | | 3.00 | | | | AA 01880 GS 01884 | | E S |
| | 030 | RW35 | TF | FO | 0.3 | 347.2 | | 3.00 | | | | AT 01311 | | GY M |
| | 040 | | CA | FB | | 347.2 | | | | | | AA 01511 | | M |
| | 050 | BOYAY | DF | FO | | | | | | | | AA 02900 | | EY |
| | 060 | BOYAY | HM | FO | | 167.1 | | | R | | | AA 02900 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| MCW | N430541.12 | W0931947.54 |
| GOTHE | N433247.94 | W0931713.84 |
| HIBLO | N433212.40 | W0932645.24 |
| BIGKA | N433841.79 | W0932129.45 |
| BOYAY | N435201.88 | W0932520.70 |
| YEDUT | N433001.92 | W0931900.20 |
| ZUTIX | N433552.88 | W0932040.88 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW35 | N434027.52 | W0932159.89 | 01261 | 50.0 |

QUALITY
24
CHECKED

| | | | | |
|---|--|-------------------------------------|---|--------------------------|
| CITY AND STATE ALBERT LEA, MN | ELEVATION: 1261 TDZE: 1261 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: ALBERT LEA MUNI | | | AMDT: 1A |
| | | | | DATED: 05/29/2014 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|------------------|-----------------------|----------|
| RST VOR/DME | FARUN INT | 209.89 / 22.87 | 3800 |
| MCW VOR/DME (IAF) | FARUN INT (NOPT) | 034.03 / 29.45 | 3800 |
| FARUN INT (IF/IAF) | DACAB INT | 351.13 / 6.11 (I-AUM) | 2900 |

**ILS: DA
LOC: 5.09 NM AFTER DACAB INT**

CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3800 ON HEADING 179 AND MCW VOR/DME R-034 TO FARUN INT AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA (DO NOT CHART): CLIMB TO 1800 THEN CLIMBING RIGHT TURN 3000 DIRECT RST VOR/DME AND HOLD.

**ADDITIONAL FLIGHT DATA:
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW RST VOR/DME, RT, 025.14 INBOUND.
CHART IN PLANVIEW: RST VOR/DME.**

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD S FARUN, RT, 351.13 INBOUND, 3800 FT. IN LIEU OF PT (IAF)**
3. FAC: 351.13 FAF: DACAB INT DIST FAF TO MAP: 5.09 THLD: 5.09
4. MIN. ALT: **FARUN 3800, DACAB 2900**
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: **951**
6. MIN GS INCPT: 2900 GS ALT AT: DACAB 2900 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 47.2
8. MSA FROM: **JAY VOR/DME 030-210 3900, 210-030 3400**

MAG VAR: 1E EPOCH YEAR: 2005

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 |
| S-ILS 35 | 1431 | 1/2 | 200 | 1431 | 1/2 | 200 | 1431 | 1/2 | 200 | 1431 | 1/2 | 200 | | | |
| S-LOC 35 | 1700 | 1/2 | 469 | 1700 | 1/2 | 469 | 1700 | 1 | 469 | 1700 | 1 | 469 | | | |
| CIRCLING | 1740 | 1 | 506 | 1740 | 1 | 506 | 1740 | 1 1/2 | 506 | 1800 | 2 | 566 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MCW VOR/DME AIRWAY RADIALS 343 CW 075.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBERT LEA ALTIMETER SETTING AND INCREASE ALL DA 48 FEET AND ALL MDA 60 FEET.
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 35 CATS C AND D VISIBILITY TO 1 3/8 MILE.



| | | | | |
|-------------------------------------|---|--------------------------------------|---|--|
| CITY AND STATE AUSTIN, MN | ELEVATION: 1234 TDZE: 1231 AIRPORT NAME: AUSTIN MUNI | FACILITY IDENTIFIER: I-AUM | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35, AMDT 1B 5 JANUARY 2017 | SUP: AMDT: 1A DATED 05/29/2014 |
|-------------------------------------|---|--------------------------------------|---|--|

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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| <u>DP NAME</u> | <u>NUMBER</u> | <u>DP COMPUTER CODE</u> | <u>SUPERSEDED NUMBER</u> | <u>DATED</u> | <u>EFFECTIVE DATE</u> |
|----------------|---------------|-------------------------|--------------------------|--------------|-----------------------|
| SILVER CITY | TWO | SVC2.SVC | ONE | 29MAY2014 | 5 JANUARY 2017 |

| <u>TYPE:</u> | <u>OBSTACLE</u> | <u>COPTER</u> | <u>SID</u> | <u>SPECIAL</u> | <u>RNAV</u> |
|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

DP ROUTE DESCRIPTION:

RWY 8: CLIMBING RIGHT TURN TO INTERCEPT THE SVC VOR/DME R-169 TO FFAST. CROSS FFAST AT OR ABOVE 9000 BEFORE PROCEEDING ON COURSE.
RWY 26: CLIMBING LEFT TURN TO INTERCEPT THE SVC VOR/DME R-169 TO FFAST. CROSS FFAST AT OR ABOVE 9000 BEFORE PROCEEDING ON COURSE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

| <u>TRANSITION NAME</u> | <u>TRANSITION COMPUTER CODE</u> | <u>FROM FIX/NAVAID</u> | <u>TO FIX/NAVAID</u> | <u>COURSE</u> | <u>DISTANCE</u> | <u>MEA</u> | <u>MOCA</u> | <u>CROSSING ALTITUDE/FIXES</u> |
|------------------------|---------------------------------|------------------------|----------------------|---------------|-----------------|------------|-------------|--------------------------------|
|------------------------|---------------------------------|------------------------|----------------------|---------------|-----------------|------------|-------------|--------------------------------|

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 3, 12, 17, 21, 30, 35 NA - ENVIRONMENTAL
RWY 8, 26 STANDARD

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 8, VEGETATION BEGINNING 225 FEET FROM DER, 436 FEET LEFT OF CENTERLINE, UP TO 13 FEET AGL/5390 FEET MSL.
NOTE: RWY 26, TREES BEGINNING 45 FEET FROM DER, 452 FEET LEFT OF CENTERLINE, UP TO 8 FEET AGL/5390 FEET MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 8, 26-15000 FEET MSL BALLOON 320135.00N-1075152.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

AIRPORTS SERVED:

| <u>AIRPORT NAME</u> | <u>CITY</u> | <u>STATE</u> |
|---------------------|-------------|--------------|
| GRANT COUNTY | SILVER CITY | NM |

COMMUNICATIONS:

FIXES AND/OR NAVAIDS:

REMARKS:

ABBREVIATED AMDT



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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| <u>DP NAME</u> | <u>NUMBER</u> | <u>DP COMPUTER CODE</u> | <u>SUPERSEDED NUMBER</u> | <u>DATED</u> | <u>EFFECTIVE DATE</u> |
|----------------|---------------|-------------------------|--------------------------|--------------|-----------------------|
| SILVER CITY | TWO | SVC2.SVC | ONE | 29MAY2014 | 5 JANUARY 2017 |

FLIGHT INSPECTED BY: *Digitally signed by*
 FLIGHT INSPECTION NOT REQUIRED **BEV L BORDY**
 ROBERT STUCKERT Nov 08, 2016

OFFICE SYMBOL: **DATE:**
 AJW-331 2/5/2014

DEVELOPED BY: *Digitally signed by*
 BEV BORDY (STEVE OWNBEY) **BEV L BORDY**
 Nov 08, 2016
Digitally signed by

OFFICE SYMBOL: **DATE:**
 AJV-5433 10/25/2016

APPROVED BY: **BEV L BORDY**
 LONNIE EVERHART Nov 08, 2016

OFFICE SYMBOL: **DATE:**
 AJV-5430

REQUIRED EFFECTIVE DATE:
 ROUTINE

COORDINATED WITH:

| | | | | | |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:
 ATA, ZAB AMGR, ST AV DIR

CHANGES - REASONS:
 CHANGED SILVER CITY (SVC) FROM VORTAC TO VOR/DME - TACAN ANTENNA REPLACED WITH DME.



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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|--|
| RUTEE (IF/IAF) | CANSI (FB) | 039.74 / 6.00 | 2600 | LPV: DA LNAV/VNAV: DA LNAV: RW04 CLIMB TO 2900 DIRECT TWAES AND HOLD. |
| CANSI (FAF) | GIRNS/1.80 NM TO RW04 (FB) | 039.79 / 3.41 | | |
| GIRNS/1.80 NM TO RW04 | RW04 (MAP) (FO) | 039.79 / 1.80 | | |
| RW04 (MAP) | 1150 MSL | 039.79 | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 219.93 INBOUND. CHART FAS OBST: 982 TREE 395627N/0815349W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 0.97 NM TO RW04* *LNAV ONLY. WAAS CHANNEL # 72639 REFERENCE PATH ID: W04A CHART CIRCLING ICON. LTP HAE: 239.3 M |
| 1150 MSL | TWAES (FO) | | 2900 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW RUTEE, RT, 039.74 INBOUND, 2800 FT. IN LIEU OF PT (IAF)
3. FAC: 039.79 FAF: CANSI DIST FAF TO MAP: 5.21 THLD: 5.21
4. MIN. ALT: RUTEE 2800, CANSI 2600, GIRNS/1.80 NM TO RW04 1500*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2600 GS ALT AT: CANSI 2600 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: **6W** EPOCH YEAR: **1990**

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 | 1150 | 7/8 | 250 | 1150 | 7/8 | 250 | 1150 | 7/8 | 250 | 1150 | 7/8 | 250 | | | |
| LNAV/VNAV DA | 1150 | 7/8 | 250 | 1150 | 7/8 | 250 | 1150 | 7/8 | 250 | 1150 | 7/8 | 250 | | | |
| LNAV MDA | 1240 | 1 | 340 | 1240 | 1 | 340 | 1240 | 1 | 340 | 1240 | 1 | 340 | | | |
| CIRCLING | 1380 | 1 | 480 | 1400 | 1 | 500 | 1620 | 2 | 720 | 1620 | 2 1/4 | 720 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F).
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING NEWARK ALTIMETER SETTING.
 CHART NOTE: DME/DME RNP-0.3 NA.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 800-2 1/4



| | | | | |
|---|---|-------------------------------------|--|------------------------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 900 AIRPORT NAME: ZANESVILLE MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG 5 JANUARY 2017 | SUP: 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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NOTES, (CONT.):

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWARK ALTIMETER SETTING AND INCREASE ALL LPV AND LNAV/VNAV DA TO 1214 AND ALL VISIBILITIES TO 1 SM, INCREASE ALL MDA 80 FEET; INCREASE LNAV CAT C/D VISIBILITY 1/8 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM.

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 310/30 CW 130/30 (NOPT) | RUTEE (IF/IAF) (FB) | 2800 |
| 2. | 130/30 CW 310/30 | RUTEE (IF/IAF) (FO) | 2800 |



| | | | | | |
|---|---|------------------|-------------------------------------|---|-------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 | TDZE: 900 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: ZANESVILLE MUNI | | | | AMDT: NONE |
| | | | | | DATED: |

**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 | KZZV |
| RUNWAY | RW04 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W04A |
| LTP/FTP LATITUDE | 395620.5865N |
| LTP/FTP LONGITUDE | 0815345.0685W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02393 |
| FPAP LATITUDE | 395734.6540N |
| FPAP LONGITUDE | 0815240.5585W |
| 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 | 1224 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER 06DC7049

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02731 |
| FPAP ORTHOMETRIC HEIGHT | +02731 |



| | | | | |
|---|---|-------------------------------------|---|-------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 900 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: ZANESVILLE MUNI | | | 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

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ARINC SUMMARY - KZZV

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| RUTEE | 010 | RUTEE | HF | FO | | 039.7 | | | R | | | AA 02800 | | EE A |
| | 010 | RUTEE | IF | FB | | | | | | | | AA 02800 | | E I |
| | 020 | CANSI | TF | FB | 1.0 | 039.7 | | | | | | AA 02600 | | E F |
| | 021 | GIRNS | TF | FB | 0.3 | 039.8 | | 3.00 | | | | AA 01500 GS 01514 | | E S |
| | 030 | RW04 | TF | FO | 0.3 | 039.8 | | 3.00 | | | | AT 00941 | | GY M |
| | 040 | | CA | FB | | 039.8 | | | | | | AA 01150 | | M |
| | 050 | TWAES | DF | FO | | | | | | | | AA 02900 | | EY |
| | 060 | TWAES | HM | FO | | 219.9 | | | R | | | AA 02900 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CANSI | N395200.69 | W0815731.06 |
| GIRNS | N395450.79 | W0815503.21 |
| RUTEE | N394701.18 | W0820150.77 |
| TWAES | N400624.09 | W0814457.97 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW04 | N395620.59 | W0815345.07 | 00896 | 45 |



| | | | | |
|---|---|----------------------|---|-------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 900 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: ZANESVILLE MUNI | RNAV | RNAV (GPS) RWY 4, ORIG 5 JANUARY 2017 | AMDT: NONE |
| | | | | DATED: |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|---|
| TWAES (IF/IAF) | PROLE (FB) | 219.93 / 6.00 | 2600 | LPV: DA LNAV/VNAV: DA LNAV: RW22 |
| PROLE (FAF) | NODSE/2.10 NM TO RW22 (FB) | 219.88 / 3.18 | | |
| NODSE/2.10 NM TO RW22 | RW22 (MAP) (FO) | 219.88 / 2.10 | | |
| RW22 (MAP) | 1092 MSL | 219.88 | 2800 | CLIMB TO 2800 DIRECT RUTEE AND HOLD. |
| 1092 MSL | RUTEE (FO) | | | |

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 039.74 INBOUND.
CHART FAS OBST: 1075 TWR 395824N/0815139W
DISTANCE TO THLD FROM 200 HAT: 0.55 NM.
CHART VDP AT 1.30 NM TO RW22*
***LNAV ONLY.**
WAAS CHANNEL # 78039
REFERENCE PATH ID: W22A
CHART CIRCLING ICON.
LTP HAE: 231.2 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD NE TWAES, RT, 219.93 INBOUND, 2900 FT. IN LIEU OF PT (IAF)**
3. FAC: 219.88 FAF: PROLE DIST FAF TO MAP: 5.28 THLD: 5.28
4. MIN. ALT: **TWAES 2900, PROLE 2600, NODSE/2.10 NM TO RW22 1580***
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2600 GS ALT AT: PROLE 2600 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 48.1 **34:1 IS CLEAR**
8. MSA FROM:

MAG VAR: **6W** EPOCH YEAR: **1990**

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 | 1092 | 3/4 | 200 | 1092 | 3/4 | 200 | 1092 | 3/4 | 200 | 1092 | 3/4 | 200 | | | |
| LNAV/VNAV DA | 1142 | 7/8 | 250 | 1142 | 7/8 | 250 | 1142 | 7/8 | 250 | 1142 | 7/8 | 250 | | | |
| LNAV MDA | 1340 | 1 | 448 | 1340 | 1 | 448 | 1340 | 1 3/8 | 448 | 1340 | 1 3/8 | 448 | | | |
| CIRCLING | 1380 | 1 | 480 | 1400 | 1 | 500 | 1620 | 2 | 720 | 1620 | 2 1/4 | 720 | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWARK ALTIMETER SETTING AND INCREASE
(CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 800-2 1/4



| | | | | |
|---|---|-------------------------------------|---|------------------------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 892 AIRPORT NAME: ZANESVILLE MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, ORIG 5 JANUARY 2017 | SUP: 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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NOTES, (CONT.):

LPV DA TO 1156 AND VISIBILITY 1/8 SM, LNAV/VNAV DA TO 1206 AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDA 80 FEET, INCREASE LNAV CAT C/D 1/8 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM.

TAA

| | <u>FROM</u> | <u>TO</u> | <u>ALT</u> |
|----|-------------------------|---------------------|------------|
| 1. | 130/30 CW 310/30 (NOPT) | 130/15 CW 310/15 | 3400 |
| 2. | 130/15 CW 310/15 | TWAES (IF/IAF) (FB) | 2900 |
| 3. | 310/30 CW 130/30 | TWAES (IF/IAF) (FO) | 2900 |



| | | | | |
|---|---|-------------------------------------|--|-------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 892 AIRPORT NAME: ZANESVILLE MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, ORIG 5 JANUARY 2017 | 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 | KZZV |
| RUNWAY | RW22 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W22A |
| LTP/FTP LATITUDE | 395701.6245N |
| LTP/FTP LONGITUDE | 0815309.3275W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02312 |
| FPAP LATITUDE | 395547.5565N |
| FPAP LONGITUDE | 0815413.8270W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00048.1 |
| 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) | 35.0 |

CRC REMAINDER DDA0E4C7

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02650 |
| FPAP ORTHOMETRIC HEIGHT | +02650 |



| | | | | |
|---|---|-------------------------------------|--|-------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 892 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, ORIG 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: ZANESVILLE MUNI | | | 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 - KZZV

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| TWAES | 010 | TWAES | HF | FO | | 219.9 | | | R | | | AA 02900 | | EE A |
| | 010 | TWAES | IF | FB | | | | | | | | AA 02900 | | E I |
| | 020 | PROLE | TF | FB | 1.0 | 219.9 | | | | | | AA 02600 | | E F |
| | 021 | NODSE | TF | FB | 0.3 | 219.9 | | 3.00 | | | | AA 01580 GS 01587 | | E S |
| | 030 | RW22 | TF | FO | 0.3 | 219.9 | | 3.00 | | | | AT 00917 | | GY M |
| | 040 | | CA | FB | | 219.9 | | | | | | AA 01092 | | M |
| | 050 | RUTEE | DF | FO | | | | | | | | AA 02800 | | EY |
| | 060 | RUTEE | HM | FO | | 039.7 | | | R | | | AA 02800 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| NODSE | N395846.35 | W0815138.05 |
| PROLE | N400125.07 | W0814919.53 |
| RUTEE | N394701.18 | W0820150.77 |
| TWAES | N400624.09 | W0814457.97 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW22 | N395701.62 | W0815309.33 | 00869 | 48.1 |

| | | | | |
|---|---|---|--|-------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 892 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 22, ORIG 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: ZANESVILLE MUNI | | | AMDT: NONE |
| | | | | DATED: |

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |

MAP: ZZV VOR/DME

CLIMB TO 3000 THEN LEFT TURN DIRECT ZZV VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 045.34 INBOUND.
CHART FAS OBST: 1082 TREE 395500N/0815651W
CHART VDP AT 1.39 DME
DISTANCE VDP TO THLD 1.22 NM.
NEBLA TO RW4: 3.12/35.
CHART CIRCLING ICON.
FAC CROSSES RWY C/L EXTENDED 2998 FT FROM THLD.

- PT L SIDE OF COURSE 225.34 OUTBOUND 2700 FT WITHIN 10 MILES OF ZZV VOR/DME (IAF)
-
- FAC 045.34 FAF _____ DIST FAF TO MAP _____ THLD _____
- MIN. ALT NEBLA/ZZV 2.20 DME 1600*
- MSA FROM: ZZV VOR/DME 2700

MAG VAR: **6W** EPOCH YEAR: **1990**

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-04 | 1600 | 1 | 700 | 1600 | 1 | 700 | 1600 | 2 | 700 | 1600 | 2 | 700 | | | |
| CIRCLING | 1600 | 1 | 700 | 1600 | 1 | 700 | 1620 | 2 | 720 | 1620 | 2 1/4 | 720 | | | |

NEBLA FIX MINIMUMS

| | | | | | | | | | | | | | | | |
|-----------------|------|---|-----|------|---|-----|------|-------|-----|------|-------|-----|--|--|--|
| S-04 | 1340 | 1 | 440 | 1340 | 1 | 440 | 1340 | 1 1/4 | 440 | 1340 | 1 1/4 | 440 | | | |
| CIRCLING | 1380 | 1 | 480 | 1400 | 1 | 500 | 1620 | 2 | 720 | 1620 | 2 1/4 | 720 | | | |

NOTES:

CHART NOTE: VDP NA WHEN USING NEWARK ALTIMETER SETTING.
***1680 WHEN USING NEWARK ALTIMETER SETTING.**
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, NEWARK ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE S-4 AND CIRCLING CAT B VISIBILITY 1/4 SM AND CAT C/D 1/2 SM, NEBLA FIX MINIMUMS INCREASE S-4 CAT C/D VISIBILITY 1/8 SM AND CIRCLING CAT C/D 1/4 SM.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 800-2 1/4



| | | | | |
|---|---|------------------------------------|---|---|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 900 AIRPORT NAME: ZANESVILLE MUNI | FACILITY IDENTIFIER: ZZV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 4, AMDT 7 5 JANUARY 2017 | SUP VOR OR GPS RWY 4 AMDT 6A DATE 07/25/1991 |
|---|---|------------------------------------|---|---|

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |

MAP: ZZV VOR/DME

CLIMB TO 3000 THEN RIGHT TURN DIRECT ZZV VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 045.34 INBOUND.
CHART FAS OBST: 1456 TOWER 400255N/0814401W
CHART VDP AT 3.16 DME
DISTANCE VDP TO THLD 2.51 NM.
CHART CIRCLING ICON.
FAC CROSSES RWY C/L EXTENDED 2666 FT FROM THLD.

1. PT L SIDE OF COURSE 036.61 OUTBOUND 2700 FT WITHIN 10 MILES OF ZZV VOR/DME (IAF)
 2. _____
 3. FAC 216.61 FAF _____ DIST FAF TO MAP _____ THLD _____
 4. MIN. ALT _____
 8. MSA FROM: **ZZV VOR/DME 2700**

MAG VAR: **6W** EPOCH YEAR: **1990**

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-22 | 1720 | 1 | 828 | 1720 | 1 1/4 | 828 | 1720 | 2 1/2 | 828 | 1720 | 2 1/2 | 828 | | | |
| CIRCLING | 1720 | 1 1/4 | 820 | 1720 | 1 1/4 | 820 | 1720 | 2 1/2 | 820 | 1720 | 2 3/4 | 820 | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: VDP NA WHEN USING NEWARK ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWARK ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE S-22 CAT A VISIBILITY 1/4 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM.

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4



| | | | | |
|---|---|------------------------------------|---|---------------------------------|
| CITY AND STATE ZANESVILLE, OH | ELEVATION: 900 TDZE: 892 | FACILITY IDENTIFIER: ZZV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 22, AMDT 4 5 JANUARY 2017 | SUP VOR OR GPS RWY 22 |
| | AIRPORT NAME: ZANESVILLE MUNI | | | AMDT 3B |
| | | | | DATE 06/05/2008 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR/DME 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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | MAP: LVT R-107/28.90 DME |
|-------------------------------------|-----------------------------|---------------------|----------|--|
| LVT VOR/DME (IAF) | LARRY/20.00 DME | 107.00 / 20.00 | 3500 | CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3500 ON LVT VOR/DME R-107 TO LARRY/20.00 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 107.00 INBOUND. CHART FAS OBST: 1719 TREE 362829N/0843727W CHART 1660 POWERLINE TOWER 362645N/0843603W. CHART LVT R-024 AT LVT VOR/DME. CHART LVT R-171 AT LVT VOR/DME. CHART CIRCLING ICON. FAC ALIGNS TO CENTER OF LANDING AREA. |
| LVT VOR/DME/LVT 20.00 DME CW (IAF) | LARRY/20.00 DME | 20.00 DME ARC | 3500 | |
| LVT VOR/DME/LVT 20.00 DME CCW (IAF) | LARRY/20.00 DME | 20.00 DME ARC | 3500 | |
| LARRY/20.00 DME (IF) | LVT VOR/DME R-107/25.00 DME | 107.00 / 5.00 | 3200 | |

- PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
- PROFILE STARTS AT LARRY
- FAC 107.00 FAF LVT VOR/DME R-107/25.00 DME DIST FAF TO MAP _____ THLD _____
- MIN. ALT LARRY 3500, LVT VOR/DME R-107/25.00 DME 3200
- MSA FROM: LVT VOR/DME 090-270 3900, 270-090 3000 (30 NM)

MAG VAR: **2W** EPOCH YEAR: **1985**

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 |
| CIRCLING | 2040 | 1 | 495 | 2040 | 1 1/4 | 495 | 2200 | 1 3/4 | 655 | 2260 | 2 1/4 | 715 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: CIRCLING TO RWY 5 NA AT NIGHT.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MONTICELLO ALTIMETER SETTING AND INCREASE ALL MDA 240 FEET AND CIRCLING CAT C 1 SM, CAT D 3/4 SM.



| | | | | |
|-------------------------------------|------------------------------------|------------------------------------|---|------------------------|
| CITY AND STATE ONEIDA, TN | ELEVATION: 1545 TDZE: | FACILITY IDENTIFIER: LVT | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME-A, AMDT 5D 5 JANUARY 2017 | SUP |
| | AIRPORT NAME: SCOTT MUNI | | | AMDT 5C |
| | | | | DATE 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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: 5.38 NM AFTER TOMHI LOM/INT/I-ABI 6.76 DME OR AT I-ABI 1.38 DME |
|---------------------------|------------------------------|---------------------|----------|--|
| TQA VOR/DME | TOMHI LOM/INT/I-ABI 6.76 DME | 052.44 / 8.18 | 4000 | CLIMB TO 3300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT TOMHI LOM/INT/I-ABI 6.76 DME AND HOLD. ALTERNATE MA (DO NOT CHART): , OR AS DIRECTED BY ATC. CLIMB TO 3300 THEN CLIMBING LEFT TURN TO 5000 DIRECT ABI VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD S, RT, 354.76 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W ABI VORTAC, RT, 105.00 INBOUND. CHART FAS OBST: 2010 TANK 321944N/0994114W CHART: 2059 TREE 321757N/0994057W CHART VDP AT 2.68 DME* DISTANCE VDP TO THLD 1.29 NM. *LOC ONLY. CHART CIRCLING ICON. CHART ELM DALE AIRPORT (PVT) ON PLANVIEW CHART: (CFPLC) AT 320611.63N/0994023.80W |
| ABI VORTAC | TOMHI LOM/INT/I-ABI 6.76 DME | 128.60 / 14.55 | 4000 | |
| NUGEN/ABI 16.00 DME/RADAR | TOMHI LOM/INT/I-ABI 6.76 DME | 174.04 / 24.03 | 4000 | |
| TRUSS INT | TOMHI LOM/INT/I-ABI 6.76 DME | 203.53 / 15.59 | 4000 | |
| FLECK INT | TOMHI LOM/INT/I-ABI 6.76 DME | 231.22 / 8.86 | 4000 | |
| MEDLY INT | TOMHI LOM/INT/I-ABI 6.76 DME | 294.37 / 8.87 | 4000 | |

- PT L SIDE OF COURSE 174.76 OUTBOUND 4000 FT WITHIN 15 MILES OF TOMHI LOM (IAF)
-
- FAC: 354.76 FAF: TOMHI LOM/INT/I-ABI 6.76 DME DIST FAF TO MAP: 5.38 THLD: 5.38
- MIN. ALT: TOMHI LOM/INT/I-ABI 6.76 DME 3600
- DIST TO THLD FROM OM: 5.38 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1161
- MIN GS INCPT: 3600 GS ALT AT: - OM: 3573 MM: - IM: -
- GS ANGLE: 3.00 TCH: 57.9
- MSA FROM: AB LOM 228-318 4600, 318-228 4000

MAG VAR: 5E 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 35R** | 1976 | 2400 | 200 | 1976 | 2400 | 200 | 1976 | 2400 | 200 | 1976 | 2400 | 200 | 1976 | 2400 | 200 |
| S-LOC 35R | 2260 | 2400 | 484 | 2260 | 2400 | 484 | 2260 | 5000 | 484 | 2260 | 5000 | 484 | 2260 | 5000 | 484 |
| CIRCLING | 2300 | 1 | 509 | 2320 | 1 | 529 | 2420 | 1 3/4 | 629 | 2460 | 2 | 669 | 2620 | 3 | 829 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
 CHART NOTE: ADF REQUIRED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ABI VORTAC ON V16 SOUTHWEST BOUND AND V77 NORTHBOUND.
 (CONTINUED ON PAGE 2)

CAT C 700-2, CAT D 700-2, CAT E 900-3
 @ CAT E 900-3



| | | | | |
|--------------------------------------|--|--------------------------------------|--|---|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: 1776 AIRPORT NAME: ABILENE RGNL | FACILITY IDENTIFIER: I-ABI | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35R, AMDT 7A, 01/05/2017 | SUP: AMDT: 7 DATED 02/11/2010 |
|--------------------------------------|--|--------------------------------------|--|---|

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.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 35R CAT C/D/E VISIBILITY TO 1 3/8 SM.
CHART PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT NUGEN.



| | | | | | |
|--------------------------------------|---|------------|--------------------------------------|--|--------------------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 AIRPORT NAME: ABILENE RGNL | TDZE: 1776 | FACILITY IDENTIFIER: I-ABI | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35R, AMDT 7A, 01/05/2017 | SUP: |
| | | | | | AMDT: 7 |
| | | | | | DATED: 02/11/2010 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
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 |
|-------------|--------------------------|---------------------|----------|
| TQA VOR/DME | HONUN INT/I-EMB 5.97 DME | 012.47 / 17.45 | 4000 |
| ABI VORTAC | HONUN INT/I-EMB 5.97 DME | 071.03 / 9.15 | 4000 |

MAP: 4.61 NM AFTER HONUN INT/I-EMB 5.97 DME OR AT I-EMB 1.36 DME

CLIMB TO 2800 THEN CLIMBING LEFT TURN TO 4000 DIRECT TOMHI LOM/INT/6.76 DME AND HOLD.

ALTERNATE MA (DO NOT CHART): CLIMB TO 2800 THEN CLIMBING RIGHT TURN TO 5000 DIRECT ABI VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 354.76 INBOUND.
 CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W ABI VORTAC, RT, 105.00 INBOUND.
 CHART FAS OBST: 1980 TOWER 322853N/0994141W
 CHART: ASR.
 CHART: (CFVHB) AT 323618.98N/0994108.87W
 CHART VDP AT 2.80 DME
 DISTANCE VDP TO THLD 1.44 NM.
 CHART CIRCLING ICON.
 HONUN TO RW17R: 3.02/61.
 CHART ELMDALE AIRPORT (PVT) ON PLANVIEW

MAG VAR: 5E EPOCH YEAR: 2020

- PT L SIDE OF COURSE 354.76 OUTBOUND 4000 FT WITHIN 15 MILES OF HONUN (IAF)
-
- FAC 174.76 FAF HONUN INT/I-EMB 5.97 DME DIST FAF TO MAP 4.61 THLD 4.61
- MIN. ALT HONUN INT/I-EMB 5.97 DME 3300
- MSA FROM: AB LOM 228-318 4600, 318-228 4000

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-17R | 2280 | 1 | 509 | 2280 | 1 | 509 | 2280 | 1 3/8 | 509 | 2280 | 1 3/8 | 509 | 2280 | 1 3/8 | 509 | |
| CIRCLING | 2300 | 1 | 509 | 2320 | 1 | 529 | 2420 | 1 3/4 | 629 | 2460 | 2 | 669 | 2620 | 3 | 829 | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ABI VORTAC AIRWAY RADIALS 037 CW 099. @ CAT E 900-3

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TQA VOR/DME AIRWAY RADIAL 082.

| | | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|--|------------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: 1771 | FACILITY IDENTIFIER: I-EMB | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC RWY 17R, ORIG-A, 01/05/2017 | SUP |
| | AIRPORT NAME: ABILENE RGNL | | | AMDT ORIG |
| | DATE 02/11/2010 | | | |



**U.S. DEPARTMENT OF TRANSPORTATION -- FEDERAL AVIATION ADMINISTRATION
RADAR -- STANDARD INSTRUMENT APPROACH PROCEDURE -- FLIGHT STANDARDS SERVICE -- FAR PART 97.31**

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.

Initial approach minimum altitude(s) shall correspond with those established for enroute operation in the particular area or as set forth below. Positive identification must be established with the radar controller. From initial contact with radar to final authorized landing minimums, the instructions of the radar controller are mandatory except when: (A) Visual contact is established on final approach at or before descent to the authorized landing minimums; or (B) at pilot's discretion if it appears desirable to discontinue the approach.

Except when the radar controller may direct otherwise prior to final approach, a missed approach shall be executed as provided below when: (A) communications on final approach is lost for more than 5 seconds during a precision approach, or for more than 30 seconds during a surveillance approach; (B) directed by radar controllers; (C) visual contact is not established upon descent to authorized landing minimums; or (D) if landing is not accomplished.

| RADAR TERMINAL AREA MANEUVERING SECTORS AND ALTITUDES <i>(Sectors and distances measured from radar antenna)</i> | | | | | | | | | | | MISSED APPROACH | | | |
|--|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|---|--|--|
| FROM | T O | DISTANCE | ALTITUDE | DISTANCE | ALTITUDE | DISTANCE | ALTITUDE | DISTANCE | ALTITUDE | DISTANCE | ALTITUDE | MAP: | | |
| | | | | | | | | | | | | RWY 17R, 35L, 35R: THLD | | |
| | | | | | | | | | | | | RWY 17R: CLIMB TO 4000 DIRECT TOMHI LOM AND HOLD S, RT, 354.76 INBOUND. | | |
| | | | | | | | | | | | | (SEE FORM 8260-10) | | |
| AS ESTABLISHED BY THE CURRENT ABILENE, TX ASR MINIMUM VECTORING ALTITUDE CHART. | | | | | | | | | | | | | | |

MINIMUMS

| TAKEOFF: | STANDARD | <input checked="" type="checkbox"/> | 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 |
| ASR-17R | 2240 | 1 | 469 | 2240 | 1 | 469 | 2240 | 1 3/8 | 469 | 2240 | 1 3/8 | 469 | 2240 | 1 3/8 | 469 |
| ASR-35L | 2340 | 1 | 553 | 2340 | 1 | 553 | 2340 | 1 5/8 | 553 | 2340 | 1 5/8 | 553 | 2340 | 1 5/8 | 553 |
| ASR-35R | 2340 | 2400 | 564 | 2340 | 2400 | 564 | 2340 | 1 1/4 | 564 | 2340 | 1 1/4 | 564 | 2340 | 1 1/4 | 564 |
| CIRCLING | 2340 | 1 | 549 | 2340 | 1 | 549 | 2420 | 1 3/4 | 629 | 2460 | 2 | 669 | 2620 | 3 | 829 |

NOTES:
 RWY 17R: 9 NM FROM THRESHOLD, MINIMUM ALTITUDE 3400; FAF 4 NM FROM THRESHOLD, MINIMUM ALTITUDE 3100; FINAL APPROACH COURSE 174.76. RECOMMENDED ALTITUDE 3 NM 2780; 2 NM 2460.
 RWY 35L: 10 NM FROM THRESHOLD, MINIMUM ALTITUDE 4000; FAF 5 NM FROM THRESHOLD, MINIMUM ALTITUDE 3500; FINAL APPROACH COURSE 354.76. RECOMMENDED ALTITUDE 4 NM 3160; 3 NM 2840; 2 NM 2500.
 RWY 35R: 10 NM FROM THRESHOLD, MINIMUM ALTITUDE 4000; FAF 5 NM FROM THRESHOLD, MINIMUM ALTITUDE 3400; FINAL APPROACH COURSE 354.76. RECOMMENDED ALTITUDE 4 NM 3080; 3 NM 2780; 2 NM 2460.
 (SEE FORM 8260-10)
 LOST COMMUNICATIONS (ALL RWYS): AS DIRECTED BY ATC ON INITIAL CONTACT.

ADDITIONAL FLIGHT DATA
 TDZE: 1771 RWY: 17R TDZE: 1787 RWY: 35L
 TDZE: 1776 RWY: 35R TDZE: RWY:
 FAS OBST:
 RWY 17R: 1990 TOWER 322837N/0994222W
 RWY 35L: 2080 AAO 321930N/0994113W
 RWY 35R: 2080 AAO 321912N/0994109W
 MAG VAR: 5E EPOCH YEAR: 202024

| | | | | |
|----------------|----------------------------|----------------------|--|-----------------|
| CITY AND STATE | ELEVATION: 1791 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP |
| ABILENE, TX | AIRPORT NAME: ABILENE RGNL | ABI ASR | RADAR-1, AMDT 10, 1/05/2017 | AMDT: 9 |
| | | | | DATED: 03/22/01 |



RADAR-1

INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES

8260-4 MISSED APPROACH CONT.

RWY 35L: CLIMB TO 3300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT TOMHI LOM AND HOLD S, RT, 354.76 INBOUND.

RWY 35R: CLIMB TO 3300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT TOMHI LOM AND HOLD S, RT, 354.76 INBOUND.

8260-4 NOTES CONT.

CHART CIRCLING ICON.

CHART ASR.

CHART NOTE: WHEN CONTROL TOWER CLOSED, ASR NA.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE ASR-35R CAT E VISIBILITY TO 1 5/8 SM.

@ CAT E 900-3

QUALITY
24
CHECKED

| | | | | | | |
|-----------------------------------|-----------------------------------|-------------------------------------|---|--------|--------------------------|----------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: | FACILITY IDENTIFIER: ABI ASR | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RADAR-1, AMDT 10, 1/05/2017 | SUP: | QUALITY 24 CHECKED | |
| | AIRPORT NAME: ABILENE RGNL | | | AMDT: | | 9 |
| | | | | DATED: | | 03/22/01 |

RADAR-1

INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES

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.

(This area is intentionally left blank for the instrument approach procedure content.)

QUALITY
24
CHECKED

| | | | | |
|-----------------------------------|--|-------------------------------------|---|-----------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: AIRPORT NAME: ABILENE RGNL | FACILITY IDENTIFIER: ABI ASR | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RADAR-1, AMDT 10, 1/05/2017 | SUP: |
| | | | | AMDT: 9 |
| | | | | DATED: 03/22/01 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|----------------------------|---------------------|----------|
| ABI VORTAC | ANETY (TF) (FB) (RNP 2.00) | 029.65 / 7.95 | 3900 |
| ROGEE | EHHAD (TF) (FB) (RNP 2.00) | 227.14 / 19.83 | 3900 |
| ANETY (IAF) | HIZSU (TF) (FB) (RNP 1.00) | 084.71 / 5.00 | 3900 |
| EHHAD (IAF) | HIZSU (TF) (FB) (RNP 1.00) | 264.81 / 5.00 | 3900 |
| HIZSU (IF) | GOFDO (TF) (FB) (RNP 1.00) | 174.76 / 6.10 | 3400 |
| (SEE FORM 8260-10) | | | |

LPV: DA
LNAV/VNAV: DA
LNAV: RW17L

CLIMB TO 4000 DIRECT IBRIF AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 354.76 INBOUND.
CHART FAS OBST: 1940 ATCT 322441N/0994042W
DISTANCE TO THLD FROM 250 HAT: 0.62 NM.
CHART VDP AT 1.24 NM TO RW17L*
*LNAV ONLY.
WAAS CHANNEL # 50317
REFERENCE PATH ID: W17A
CHART CIRCLING ICON.
CHART: ASR.
CHART: ELMDALE AIRPARK (PVT) ON PLANVIEW.
LTP HAE: 518.1 M

MAG VAR: 5E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT HIZSU
3. FAC: 174.76 FAF: GOFDO DIST FAF TO MAP: 4.82 THLD: 4.82
4. MIN. ALT: HIZSU 3900, GOFDO 3400
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 3400 GS ALT AT: GOFDO 3400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 54.2 34:1 IS NOT CLEAR
8. MSA FROM: RW17L 4600

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 | 2041 | 3/4 | 250 | 2041 | 3/4 | 250 | 2041 | 3/4 | 250 | 2041 | 3/4 | 250 | 2041 | 3/4 | 250 |
| LNAV/VNAV DA | 2171 | 1 1/4 | 380 | 2171 | 1 1/4 | 380 | 2171 | 1 1/4 | 380 | 2171 | 1 1/4 | 380 | 2171 | 1 1/4 | 380 |
| LNAV MDA | 2240 | 1 | 449 | 2240 | 1 | 449 | 2240 | 1 3/8 | 449 | 2240 | 1 3/8 | 449 | 2240 | 1 3/8 | 449 |
| CIRCLING | 2300 | 1 | 509 | 2320 | 1 | 529 | 2420 | 1 3/4 | 629 | 2460 | 2 | 669 | 2620 | 3 | 829 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 45C (113F). @ CAT E 900-3
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ABI VORTAC AIRWAY RADIALS 037 CW 071.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ROGEE ON V18 EASTBOUND.
 CHART NOTE: RWY 17L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.



| | | | | |
|--------------------------------------|--|-------------------------------------|--|---|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: 1791 AIRPORT NAME: ABILENE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17L, AMDT 1A, 01/05/2017 | SUP: AMDT: 1 DATED 04/08/2010 |
|--------------------------------------|--|-------------------------------------|--|---|

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> |
|-------------|----------------------------------|----------------------------|-----------------|
| GOFDO (FAF) | RW17L (MAP) (TF) (FO) (RNP 0.30) | 174.76 / 4.82 | |
| RW17L (MAP) | 2041 MSL | 174.76 | |
| 2041 MSL | IBRIF (DF) (FO) (RNP 1.00) | | 4000 |



| | | | | | |
|--------------------------------------|---|------------|-------------------------------------|--|--------------------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 AIRPORT NAME: ABILENE RGNL | TDZE: 1791 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17L, AMDT 1A, 01/05/2017 | SUP: |
| | | | | | AMDT: 1 |
| | | | | | DATED: 04/08/2010 |

**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 | KABI |
| RUNWAY | RW17L |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W17A |
| LTP/FTP LATITUDE | 322430.7115N |
| LTP/FTP LONGITUDE | 0994029.2135W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +05181 |
| FPAP LATITUDE | 322301.4310N |
| FPAP LONGITUDE | 0994028.7745W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00054.2 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0560 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | 77B53B41 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +05457 |
| FPAP ORTHOMETRIC HEIGHT | +05457 |



| | | | | |
|--------------------------------------|--|-------------------------------------|--|--------------------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: 1791 AIRPORT NAME: ABILENE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17L, AMDT 1A, 01/05/2017 | SUP: |
| | | | | AMDT: 1 |
| | | | | DATED: 04/08/2010 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|-----------------------------------|---------------------|----------|
| ABI VORTAC | ZANGU (TF) (FB) (RNP 2.00) | 057.88 / 17.07 | 4000 |
| FLECK | VAYUS (TF) (FB) (RNP 2.00) | 031.72 / 7.29 | 4000 |
| ROGEE (IAF) | ULOYO (NOPT) (TF) (FB) (RNP 1.00) | 213.58 / 19.14 | 4000 |
| ZANGU (IAF) | ULOYO (NOPT) (TF) (FB) (RNP 1.00) | 137.35 / 5.00 | 4000 |
| VAYUS (IAF) | ULOYO (NOPT) (TF) (FB) (RNP 1.00) | 317.41 / 5.00 | 4000 |
| (SEE FORM 8260-10) | | | |

LNAV: RW22

CLIMBING RIGHT TURN TO 4000 DIRECT ULOYO AND HOLD.

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 1913 DERRICK 322620N/0993904W
CHART: ASR.
CHART: ELMDALE AIRPARK (PVT) ON PLANVIEW.
CHART VDP AT 1.16 NM TO RW22.
CHART CIRCLING ICON.
JOKPI TO RW22: 3.05/40.

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. **HOLD NE ULOYO, RT, 227.38 INBOUND, 4000 FT. IN LIEU OF PT (IAF)**
3. FAC: 227.33 FAF: JOKPI DIST FAF TO MAP: 5.56 THLD: 5.56
4. MIN. ALT: **ULOYO 4000, JOKPI 3600, YARUG/2.80 NM TO RW22 2700**
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 CLEAR**
8. MSA FROM: **RW22 4600**

MAG VAR: 5E 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 | 2180 | 1 | 416 | 2180 | 1 | 416 | 2180 | 1 1/8 | 416 | 2180 | 1 1/8 | 416 | | | |
| CIRCLING | 2300 | 1 | 509 | 2320 | 1 | 529 | 2420 | 1 3/4 | 629 | 2460 | 2 | 669 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ABI VORTAC AIRWAY RADIALS 037 CW 099.



| | | | | |
|--------------------------------------|--|-------------------------------------|--|--|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: 1764 AIRPORT NAME: ABILENE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, ORIG-A, 01/05/2017 | SUP: AMDT: ORIG DATED 01/15/2009 |
|--------------------------------------|--|-------------------------------------|--|--|

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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-----------------------|--|----------------------------|-----------------|
| ULOYO (IF/IAF) | JOKPI (TF) (FB) (RNP 1.00) | 227.38 / 6.10 | 3600 |
| JOKPI (FAF) | YARUG/2.80 NM TO RW22 (TF) (FB) (RNP 0.30) | 227.33 / 2.76 | |
| YARUG/2.80 NM TO RW22 | RW22 (MAP) (TF) (FO) (RNP 0.30) | 237.33 / 2.80 | |
| RW22 (MAP) | 2180 MSL | 227.33 | |
| 2180 MSL | ULOYO (DF) (FO) (RNP 1.00) | | 4000 |

QUALITY
19
CHECKED

| | | | | | |
|--------------------------------------|---|------------|-------------------------------------|--|--------------------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 AIRPORT NAME: ABILENE RGNL | TDZE: 1764 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, ORIG-A, 01/05/2017 | SUP: |
| | | | | | AMDT: ORIG |
| | | | | | DATED: 01/15/2009 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|----------------------------|---------------------|----------|
| ABI VORTAC | INECO (TF) (FB) (RNP 2.00) | 159.26 / 17.16 | 4000 |
| SITNA | KEYJO (TF) (FB) (RNP 2.00) | 264.74 / 26.70 | 4000 |
| INECO (IAF) | NILSE (TF) (FB) (RNP 1.00) | 084.71 / 5.00 | 4000 |
| KEYJO (IAF) | NILSE (TF) (FB) (RNP 1.00) | 264.81 / 5.00 | 4000 |
| NILSE (IF) | IBRIF (TF) (FB) (RNP 1.00) | 354.76 / 6.10 | 3400 |
| (SEE FORM 8260-10) | | | |

LPV: DA
LNAV/VNAV: DA
LNAV: RW35R

CLIMB TO 4000 DIRECT GOFDO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 174.76 INBOUND.
CHART FAS OBST: 1842 POLE 322137N/0994022W
CHART: ASR.
CHART: ELMDALE AIRPARK (PVT) ON PLANVIEW.
DISTANCE TO THLD FROM 200 HAT: 0.45 NM.
CHART VDP AT 1.34 NM TO RW35R*
*LNAV ONLY.
WAAS CHANNEL # 97517
REFERENCE PATH ID: W35A
CHART CIRCLING ICON.
LTP HAE: 513.7 M

MAG VAR: 5E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT NILSE
3. FAC: 354.76 FAF: IBRIF DIST FAF TO MAP: 4.85 THLD: 4.85
4. MIN. ALT: NILSE 4000, IBRIF 3400, BERUF/1.90 NM TO RW35R 2440*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 3400 GS ALT AT: IBRIF 3400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 57.7 34:1 IS CLEAR
8. MSA FROM: RW35R 4600

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 | 1976 | 2400 | 200 | 1976 | 2400 | 200 | 1976 | 2400 | 200 | 1976 | 2400 | 200 | 1976 | 2400 | 200 |
| LNAV/VNAV DA | 2189 | 5000 | 413 | 2189 | 5000 | 413 | 2189 | 5000 | 413 | 2189 | 5000 | 413 | 2189 | 5000 | 413 |
| LNAV MDA | 2260 | 2400 | 484 | 2260 | 2400 | 484 | 2260 | 5000 | 484 | 2260 | 5000 | 484 | 2260 | 5000 | 484 |
| CIRCLING | 2300 | 1 | 509 | 2320 | 1 | 529 | 2420 | 1 3/4 | 629 | 2460 | 2 | 669 | 2620 | 3 | 829 |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 45C (113F). @ CAT E 900-3
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SITNA ON V94 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ABI VORTAC AIRWAY RADIALS 099 CW 195.
(CONTINUED ON PAGE 2)



| | | | | |
|--------------------------------------|--|-------------------------------------|--|---|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 TDZE: 1776 AIRPORT NAME: ABILENE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35R, AMDT 1A, 01/05/2017 | SUP: AMDT: 1 DATED 04/08/2010 |
|--------------------------------------|--|-------------------------------------|--|---|

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> |
|------------------------|--|----------------------------|-----------------|
| IBRIF (FAF) | BERUF/1.90 NM TO RW35R (TF) (FB) (RNP 0.30) | 354.76 / 2.95 | |
| BERUF/1.90 NM TO RW35R | RW35R (MAP) (TF) (FO) (RNP 0.30) | 354.76 / 1.90 | |
| RW35R (MAP) | 1976 MSL | 354.76 | |
| 1976 MSL | GOFDO (DF) (FO) (RNP 1.00) | | 4000 |

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, INCREASE LNAV/VNAV AND LNAV CAT E VISIBILITY 1/2 SM.



| | | | | | |
|--------------------------------------|---|------------|-------------------------------------|--|--------------------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 AIRPORT NAME: ABILENE RGNL | TDZE: 1776 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35R, AMDT 1A, 01/05/2017 | SUP: |
| | | | | | AMDT: 1 |
| | | | | | DATED: 04/08/2010 |

**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 | KABI |
| RUNWAY | RW35R |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W35A |
| LTP/FTP LATITUDE | 322319.4925N |
| LTP/FTP LONGITUDE | 0994028.8580W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +05137 |
| FPAP LATITUDE | 322448.7730N |
| FPAP LONGITUDE | 0994029.2990W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00057.7 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0560 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 35.0 |

CRC REMAINDER 0BCF8AB9

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +05413 |
| FPAP ORTHOMETRIC HEIGHT | +05413 |



| | | | | | | |
|-------------------------------|-------------------------------|------------|------------------------------|---|--------|------------|
| CITY AND STATE ABILENE, TX | ELEVATION: 1791 | TDZE: 1776 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35R, AMDT 1A, 01/05/2017 | SUP: | |
| | AIRPORT NAME: ABILENE RGNL | | | | AMDT: | 1 |
| | | | | | DATED: | 04/08/2010 |

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|----------------|-----------------------|----------------|
| ABILENE, TX | ABILENE RGNL | 01/05/2017 | 3 |

TAKEOFF MINIMUMS:

RWY 04, 17L, 17R, 35L, 35R: STANDARD

RWY 22: 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 203 FT PER NM TO 2200, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

TEXTUAL DEPARTURE PROCEDURES:

RWY 17L: CLIMB ON HEADING 174.76 TO 3000 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 04: CHY BEGINNING 1839 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/1815 FT MSL.

NOTE: RWY 17R: GRD 13 FT FROM DER, 474 FT LEFT OF CENTERLINE, 1789 FT MSL. POLE 949 FT FROM DER, 742 FT LEFT OF CENTERLINE, 29 FT AGL/1820 FT MSL.

NOTE: RWY 22: FENCE 8 FT FROM DER, 372 FT LEFT OF CENTERLINE, 14 FT AGL/1762 FT MSL. TREE 119 FT FROM DER, 400 FT LEFT OF CENTERLINE, 1769 FT MSL. TREE 122 FT FROM DER, 517 FT RIGHT OF CENTERLINE, 21 FT AGL/1772 FT MSL. TREES BEGINNING 144 FT FROM DER, 375 FT LEFT OF CENTERLINE, UP TO 28 FT AGL/1776 FT MSL. TREE 327 FT FROM DER, 471 FT RIGHT OF CENTERLINE, 24 FT AGL/1775 FT MSL. TREE 439 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 22 FT AGL/1777 FT MSL. POLE 1151 FT FROM DER, 746 FT LEFT OF CENTERLINE, 31 FT AGL/1784 FT MSL. TOWER 4018 FT FROM DER, 227 FT RIGHT OF CENTERLINE, 135 FT AGL/1870 FT MSL. TOWER 1.9 NM FROM DER, 276 FT LEFT OF CENTERLINE, 306 FT AGL/2051 FT MSL.

NOTE: RWY 35L: POLE, WSK BEGINNING 193 FT FROM DER, 516 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/1769 FT MSL.

NOTE: RWY 35R: DME 1203 FT FROM DER, 265 FT LEFT OF CENTERLINE, 15 FT AGL/1823 FT MSL.



CONTROLLING OBSTACLES:

RWY 22: 2051 FT MSL TOWER 322357.00N/0994328.00W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 17L: 2957 FT MSL TOWER 321638.00N/0993552.00W.

REMARKS:

FLIGHT INSPECTED BY:

PENDING

Digitally signed by
JULIE A MORGAN
Nov 14, 2016

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

PETER GETZ (WILLIAM HANBY) *Digitally signed by*
JULIE A MORGAN
Nov 14, 2016

OFFICE SYMBOL:

AJV-5423

DATE:

09/08/2016

APPROVED BY:

TONY LAWSON

Digitally signed by
STEVEN A VARGAS
Oct 27, 2016

OFFICE SYMBOL:

AJV-5420

DATE:

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|----------------|-----------------------|----------------|
| ABILENE, TX | ABILENE RGNL | 01/05/2017 | 3 |

REQUIRED EFFECTIVE DATE:

01/05/2017

COORDINATED WITH:

| <u>A4A</u> | <u>ALPA</u> | <u>AOPA</u> | <u>APA</u> | <u>HAI</u> | <u>NBAA</u> |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:

CHANGES - REASONS:

1. CHANGED RWY 22 TAKEOFF MINIMUMS FROM 300 - 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 233 FT PER NM TO 2200 TO 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 203 FT PER NM TO 2200, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER - PREVIOUS CONTROLLING OBSTACLE DISMANTLED, NEW CONTROLLING OBSTACLE.
2. ALL RWYS REMOVED 100 FT TREES - VEGETATION HEIGHT CHANGED FROM 100 FT TO 55 FT PER FPT.
3. CHANGED TEXTUAL DEPARTURE RWY 17L FROM CLIMB ON HEADING 179.96 TO 3200 BEFORE PROCEEDING ON COURSE TO CLIMB ON HEADING 174.76 TO 3000 BEFORE PROCEEDING ON COURSE - MAG VAR UPDATE AND NEW CONTROLLING OBSTACLE.
4. REMOVED RWY 17L TAKE-OFF OBSTACLE NOTES - NO LOW, CLOSE-IN OBSTACLE PENETRATIONS IN ICA.
5. RWY 17R ADDED LOW, CLOSE-IN OBSTACLES - CURRENT SURVEY DATA.
6. RWY 22 CONTROLLING OBSTACLE HEIGHT CHANGED FROM 2050 FT MSL TO 2051 FT MSL. SURVEYED TREE HEIGHTS LISTED - CURRENT SURVEY DATA.
7. RWY 35L AGL HEIGHTS CHANGED FROM 100 FT TO 8 FT - CURRENT SURVEY DATA. THE MSL HEIGHT IS THE SAME.
8. RWY 35R DME ANTENNA OBSTACLE HEIGHT CHANGED FROM 1821 FT MSL TO 1823 FT MSL - CURRENT SURVEY DATA.

11/16/2016: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/27/2016.
CHANGED AIRPORT NAME FROM ABILENE REGIONAL TO ABILENE RGNL.



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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|---|
| CWK VORTAC | AWALT (FO) | 301.58 / 32.92 | 4100 | LPV: DA LNAV/VNAV: DA LNAV: RW15 |
| LLO VORTAC (IAF) | AWALT (NOPT) (FB) | 094.60 / 38.71 | 4100 | |
| AWALT (IF/IAF) | THARP (FB) | 157.25 / 6.20 | 3200 | CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 4100 DIRECT AWALT AND HOLD. |
| THARP (FAF) | CHIAP/2.90 NM TO RW15 (FB) | 157.27 / 3.16 | | |
| CHIAP/2.90 NM TO RW15 | RW15 (MAP) (FO) | 157.27 / 2.90 | | ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1359 TREE 303205N/0975938W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 0.78 NM TO RW15* *LNAV ONLY. WAAS CHANNEL # 81831 REFERENCE PATH ID: W15A CHART CIRCLING ICON. LTP HAE: 349.8 M |
| RW15 (MAP) | 1700 MSL | 157.27 | 1700 | |
| 1700 MSL | AWALT (FO) | | 4100 | |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW AWALT, RT, 157.25 INBOUND, 4100 FT. IN LIEU OF PT (IAF)
- FAC: 157.27 FAF: THARP DIST FAF TO MAP: 6.06 THLD: 6.06
- MIN. ALT: **AWALT 4100, THARP 3200, CHIAP/2.90 NM TO RW15 2180***
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 3200 GS ALT AT: THARP 3200 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
- MSA FROM: **RW15 4100**

MAG VAR: 4E 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 | 1480 | 1 | 250 | 1480 | 1 | 250 | | NA | | | NA | | | | |
| LNAV/VNAV DA | 1641 | 1 3/8 | 411 | 1641 | 1 3/8 | 411 | | NA | | | NA | | | | |
| LNAV MDA | 1620 | 1 | 390 | 1620 | 1 | 390 | | NA | | | NA | | | | |
| CIRCLING | 1660 | 1 | 430 | 1860 | 1 | 630 | | NA | | | NA | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LLO VORTAC AIRWAY RADIALS 018 CW 165 AND ON CWK VORTAC AIRWAY RADIALS 222 CW TO 004.
 (CONTINUED ON PAGE 2)



| | | | | |
|---|---|-------------------------------------|---|--|
| CITY AND STATE LAGO VISTA, TX | ELEVATION: 1230 TDZE: 1230 AIRPORT NAME: LAGO VISTA TX - RUSTY ALLEN | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 5 JANUARY 2017 | SUP: AMDT: ORIG-B DATED 05/26/2016 |
|---|---|-------------------------------------|---|--|

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 PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.



| | | | | | |
|---|--|------------|-------------------------------------|--|--------------------------|
| CITY AND STATE LAGO VISTA, TX | ELEVATION: 1230 AIRPORT NAME: LAGO VISTA TX - RUSTY ALLEN | TDZE: 1230 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: ORIG-B |
| | | | | | DATED: 05/26/2016 |

**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

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KRYW |
| RUNWAY | RW15 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W15A |
| LTP/FTP LATITUDE | 303012.7625N |
| LTP/FTP LONGITUDE | 0975817.0360W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +03498 |
| FPAP LATITUDE | 302848.1735N |
| FPAP LONGITUDE | 0975743.9600W |
| 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 |

CRC REMAINDER 7C39DB38

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +03750 |
| FPAP ORTHOMETRIC HEIGHT | +03750 |



| | | | | |
|---|---|-------------------------------------|--|--------------------------|
| CITY AND STATE LAGO VISTA, TX | ELEVATION: 1230 TDZE: 1230 AIRPORT NAME: LAGO VISTA TX - RUSTY ALLEN | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 5 JANUARY 2017 | SUP: |
| | | | | AMDT: ORIG-B |
| | | | | 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

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ARINC SUMMARY - KRYW

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| CWK | 010 | CWK | IF | FB | | | | | | | | | | V |
| CWK | 020 | AWALT | TF | FO | 2.0 | 301.6 | | | | | | AA 04100 | | EY |
| CWK | 030 | AWALT | HF | FO | | 157.3 | | | R | | | AA 04100 | | EE A |
| LLO | 010 | LLO | IF | FB | | | | | | | | | | V A |
| LLO | 020 | AWALT | TF | FB | 1.0 | 094.6 | | | | | | AA 04100 | | EE B |
| | 010 | AWALT | IF | FB | | | | | | | | AA 04100 | | E I |
| | 020 | THARP | TF | FB | 1.0 | 157.3 | | | | RW15 | | AA 03200 | | E F |
| | 021 | CHIAP | TF | FB | 0.3 | 157.3 | | 3.00 | | | | AA 02180 GS 02194 | | E S |
| | 030 | RW15 | TF | FO | 0.3 | 157.3 | | 3.00 | | | | AT 01270 | | GY M |
| | 040 | | CA | FB | | 157.3 | | | | | | AA 01700 | | M |
| | 050 | AWALT | DF | FO | 1.0 | | | | R | | | AA 04100 | | EY |
| | 060 | AWALT | HM | FO | | 157.3 | | | R | | | AA 04100 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CWK | N302242.78 | W0973147.45 |
| LLO | N304746.83 | W0984714.60 |
| AWALT | N304151.02 | W0980250.73 |
| CHIAP | N303257.94 | W0975921.68 |
| THARP | N303557.87 | W0980032.16 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW15 | N303012.76 | W0975817.04 | 01230 | 40 |

QUALITY
16
CHECKED

| | | | | |
|---|---|---|--|--------------------------|
| CITY AND STATE LAGO VISTA, TX | ELEVATION: 1230 TDZE: 1230 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LAGO VISTA TX - RUSTY ALLEN | | RNAV (GPS) RWY 15, AMDT 1 | AMDT: ORIG-B |
| | | | 5 JANUARY 2017 | DATED: 05/26/2016 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: 3.97 MILES AFTER KEEVE INT/I-LBB 6.09 DME OR AT I-LBB 2.12 DME FIX |
|--------------------------------|---------------------------|--|----------|--|
| PVW VOR/DME (IAF) | CISAP INT/I-LBB 11.45 DME | 219.00 / 2.94 (PVW R-219) & 173.67 / 12.77 (I-LBB) | 5100 | CLIMB TO 3700 THEN CLIMBING LEFT TURN TO 6000 VIA LBB VORTAC R-114 TO HYDRO INT/LBB 14.20 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 3700 THEN CLIMBING LEFT TURN TO 6000 ON PVW VOR/DME R-159 TO HYDRO/PVW 31.42 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000. (DME REQUIRED.). ADDITIONAL FLIGHT DATA: HOLD SE, LT, 293.77 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S HYDRO INT/PVW 31.42 DME, LT, 339.00 INBOUND. CHART FAS OBST: 3324 POLE 334138N/1014946W CHART VDP AT 2.96 DME* DISTANCE VDP TO THLD 0.84 MILES. *LOC ONLY. CHART (CFLTB) AT INTERSECTION OF DR LEG AND INTERMEDIATE COURSE. CHART CIRCLING ICON. |
| CISAP INT/I-LBB 11.45 DME (IF) | KEEVE INT/I-LBB 6.09 DME | 173.67 / 5.35 (I-LBB) | 4600 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT CISAP

3. FAC: 173.67 FAF: KEEVE INT/I-LBB 6.09 DME DIST FAF TO MAP: 3.97 THLD: 3.97

4. MIN. ALT: CISAP 5100, KEEVE 4600, NUSNE/I-LBB 3.52 DME 3780*

5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: **1086**

6. MIN GS INCPT: 4600 GS ALT AT: KEEVE 4600 OM: - MM: - IM: -

7. GS ANGLE: 3.00 TCH: 53.2

8. MSA FROM: **LBB VORTAC 5300**

MAG VAR: 6E 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 17R** | 3482 | 2400 | 200 | 3482 | 2400 | 200 | 3482 | 2400 | 200 | 3482 | 2400 | 200 | 3482 | 2400 | 200 |
| S-LOC 17R | 3780 | 2400 | 498 | 3780 | 2400 | 498 | 3780 | 5000 | 498 | 3780 | 5000 | 498 | 3780 | 5000 | 498 |
| CIRCLING | 3780 | 1 | 498 | 3780 | 1 | 498 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | 4100 | 3 | 818 |

NUSNE FIX MINIMUMS (DME REQUIRED)

| | | | | | | | | | | | | | | | |
|-----------|------|------|-----|------|------|-----|------|-------|-----|------|------|-----|------|------|-----|
| S-LOC 17R | 3620 | 2400 | 338 | 3620 | 2400 | 338 | 3620 | 2600 | 338 | 3620 | 2600 | 338 | 3620 | 2600 | 338 |
| CIRCLING | 3720 | 1 | 438 | 3740 | 1 | 458 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | 4100 | 3 | 818 |

NOTES:
 CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/ TCH {FEET}).
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 17R CAT E VISIBILITY TO RVR 4000, S-LOC 17R CAT C/D/E VISIBILITY TO 1 3/8 MILE, AND NUSNE DME FIX MINIMUMS, INCREASE S-LOC 17R CAT C/D/E VISIBILITY TO RVR 5000.

CAT D 700-2, CAT E 900-3
 @ CAT E 900-3



| | | | | |
|-------------------------------|---|-------------------------------|---|---------------------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: I-LBB | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 17R, AMDT 18 01/05/2017 | SUP: AMDT: 17A DATED 03/10/2011 |
|-------------------------------|---|-------------------------------|---|---------------------------------------|

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.

(This area is intentionally left blank for the instrument approach procedure.)



| | | | | |
|--------------------------------------|--|--------------------------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: I-LBB | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 17R, AMDT 18 01/05/2017 | SUP: |
| | | | | AMDT: 17A |
| | | | | DATED: 03/10/2011 |

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 - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| PVW | 010 | PVW | IF | FB | | | | | | | | | | V A |
| PVW | 020 | CFLTB | TF | FB | | | | | | | | AA 05100 | | E |
| PVW | 030 | CISAP | CF | FB | | 173.7 | ILBB | | | | | AA 05100 | | EE B |
| | 010 | CISAP | IF | FB | | | ILBB | | | | | AA 05100 GI 04600 | | E I |
| | 020 | KEEVE | CF | FB | | 174.0 | ILBB | 3.00 | | LBB | | GI 04600 GS 04600 | | E F |
| | 030 | RW17R | CF | FO | | 174.0 | ILBB | 3.00 | | | | AT 03336 | | GY M |
| | 040 | | CA | FB | | 173.7 | | | | | | AA 03700 | | M |
| | 050 | HYDRO | CF | FO | | 113.8 | LBB | | | | | AA 06000 | | EY |
| | 060 | HYDRO | HM | FO | | 293.8 | | | L | | | AA 06000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| PVW | N340510.29 | W1014724.67 |
| ILBB (DME) | N333848.98 | W1014940.24 |
| HYDRO | N333410.25 | W1014052.84 |
| CFLTB | N340306.20 | W1014953.72 |
| CISAP | N335016.94 | W1014948.39 |
| KEEVE | N334455.12 | W1014946.18 |
| ILBB (LOC) | N333849.22 | W1014943.65 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW17R | N334056.49 | W1014944.53 | 03282 | 53.2 |



| | | | | |
|--------------------------------------|--|--------------------------------------|---|------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 | FACILITY IDENTIFIER: I-LBB | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 17R, AMDT 18 01/05/2017 | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | AMDT: 17A | |
| | | | DATED: 03/10/2011 | |

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 - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| PVW | 010 | PVW | IF | FB | | | | | | | | | | V A |
| PVW | 020 | CFLT | TF | FB | | | | | | | | AA 05100 | | E |
| PVW | 030 | CISAP | CF | FB | | 173.7 | ILBB | | | | | AA 05100 | | EE B |
| | 010 | CISAP | IF | FB | | | ILBB | | | | | AA 05100 | | E I |
| | 020 | KEEVE | CF | FB | | 174.0 | ILBB | | | LBB | | AA 04600 | | E F |
| | 021 | NUSNE | CF | FB | | 174.0 | ILBB | 3.01 | | | | AA 03780 | | E S |
| | 030 | RW17R | CF | FO | | 174.0 | ILBB | 3.01 | | | | AT 03336 | | GY M |
| | 040 | | CA | FB | | 173.7 | | | | | | AA 03700 | | M |
| | 050 | HYDRO | CF | FO | | 113.8 | LBB | | | | | AA 06000 | | EY |
| | 060 | HYDRO | HM | FO | | 293.8 | | | L | | | AA 06000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| PVW | N340510.29 | W1014724.67 |
| ILBB (DME) | N333848.98 | W1014940.24 |
| HYDRO | N333410.25 | W1014052.84 |
| CFLT | N340306.20 | W1014953.72 |
| CISAP | N335016.94 | W1014948.39 |
| KEEVE | N334455.12 | W1014946.18 |
| NUSNE | N334220.64 | W1014945.11 |
| ILBB (LOC) | N333849.22 | W1014943.65 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW17R | N334056.49 | W1014944.53 | 03282 | 53.2 |



| | | | | |
|--------------------------------------|--|----------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | I-LBB | ILS OR LOC RWY 17R, AMDT 18 01/05/2017 | AMDT: 17A |
| | | | | DATED: 03/10/2011 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|-----------|---------------------|----------|
| LBB VORTAC | LUBBI LOM | 093.78 / 9.89 | 5000 |
| PVW VOR/DME | LUBBI LOM | 161.46 / 25.58 | 5100 |

ILS: DA
LOC: 3.68 MILES AFTER LUBBI LOM

**CLIMB TO 3800 THEN CLIMBING RIGHT TURN TO 4800 DIRECT LBB VORTAC AND HOLD (TACAN AIRCRAFT CLIMB TO 3800 THEN CLIMBING RIGHT TURN TO 5100 ON HEADING 300 AND ON LBB VORTAC R-035 TO JAZDE/LBB 5.00 DME AND HOLD NE, LT, 214.91 INBOUND), OR AS DIRECTED BY ATC.
(SEE FORM 8260-10)**

ADDITIONAL FLIGHT DATA:
HOLD NW, LT, 125.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW PLAINVIEW VOR/DME, RT, 024.00 INBOUND.
CHART FAS OBST: 3296 POLE 333939N/1014704W
CHART: ASR.
CHART IN PLANVIEW: PLAINVIEW VOR/DME.
CHART IN PLANVIEW: (CFFHF) AT 333947.31N/1013606.18W
CHART IN PLANVIEW: JAZDE/LBB 5.00 DME
CHART CIRCLING ICON

MAG VAR: 6E EPOCH YEAR: 2020

- PT L SIDE OF COURSE 083.67 OUTBOUND 4700 FT WITHIN 15 MILES OF LUBBI LOM (IAF)
-
- FAC: 263.67 FAF: LUBBI LOM DIST FAF TO MAP: 3.68 THLD: 3.68
- MIN. ALT: LUBBI LOM 4500
- DIST TO THLD FROM OM: 3.68 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 935
- MIN GS INCPT: 4500 GS ALT AT: - OM: 4477 MM: - IM: -
- GS ANGLE: 3.00 TCH: 52.3
- MSA FROM: LBB VORTAC 5300

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 26** | 3455 | 2400 | 200 | 3455 | 2400 | 200 | 3455 | 2400 | 200 | 3455 | 2400 | 200 | 3455 | 2400 | 200 |
| S-LOC 26 | 3560 | 2400 | 305 | 3560 | 2400 | 305 | 3560 | 2400 | 305 | 3560 | 2400 | 305 | 3560 | 2400 | 305 |
| CIRCLING | 3720 | 1 | 438 | 3740 | 1 | 458 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | 4100 | 3 | 818 |

NOTES:
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 26 CAT E VISIBILITY TO RVR 4000 AND INCREASE S-LOC 26 CAT C/D/E VISIBILITY TO RVR 4500.
CHART PLANVIEW NOTE: ADF OR RADAR REQUIRED.

CAT D 700-2, CAT E 900-3
@ CAT E 900-3



| | | | | |
|--------------------------------------|---|--------------------------------------|--|--|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: I-LDT | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 26, AMDT 4B 5 JANUARY 2017 | SUP: AMDT: 4A DATED 04/02/2015 |
|--------------------------------------|---|--------------------------------------|--|--|

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.

MISSED APPROACH INSTRUCTIONS, (CONT.):
ALTERNATE MA: CLIMB TO 3800 THEN CLIMBING RIGHT TURN TO 5100 DIRECT PVW VOR/DME AND HOLD.



| | | | | |
|--------------------------------------|--|--------------------------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: I-LDT | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 26, AMDT 4B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 4A |
| | | | | DATED: 04/02/2015 |

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 - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| LBB | 010 | LBB | IF | FB | | | | | | | | | | V |
| LBB | 020 | LUBBI | TF | FB | | | | | | | | AA 05000 | | E |
| LBB | 030 | LUBBI | PI | FB | | 038.7 | ILDT | | R | | | AA 04700 | | EE A |
| PVW | 010 | PVW | IF | FB | | | | | | | | | | V |
| PVW | 020 | LUBBI | TF | FB | | | | | | | | AA 05100 | | E |
| PVW | 030 | LUBBI | PI | FB | | 038.7 | ILDT | | R | | | AA 04700 | | EE A |
| | 010 | CFFHF | IF | FB | | | ILDT | | | | | AA 04700 | GI 04500 | E I |
| | 020 | LUBBI | CF | FB | | 264.0 | ILDT | 3.00 | | LBB | | GI 04500 | GS 04477 | E F |
| | 030 | RW26 | CF | FO | | 264.0 | ILDT | 3.00 | | | | AT 03305 | | GY M |
| | 040 | | CA | FB | | 263.7 | | | | | | AA 03800 | | M |
| | 050 | LBB | DF | FO | | | | | | | | AA 04800 | | VY |
| | 060 | LBB | HM | FO | | 125.0 | | | L | | | AA 04800 | | VE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| PVW | N340510.29 | W1014724.67 |
| CFFHF | N333947.31 | W1013606.18 |
| LUBBI | N333945.69 | W1014323.19 |
| ILDT (LOC) | N333943.96 | W1014934.35 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW26 | N333944.48 | W1014747.77 | 03253 | 52.3 |

QUALITY
15
CHECKED

| | | | | |
|--------------------------------------|--|--|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 | FACILITY IDENTIFIER: I-LDT | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | ILS OR LOC RWY 26, AMDT 4B | AMDT: 4A |
| | | | 5 JANUARY 2017 | DATED: 04/02/2015 |

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 - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| LBB | 010 | LBB | IF | FB | | | | | | | | | | V |
| LBB | 020 | LUBBI | TF | FB | | | | | | | | AA 05000 | | E |
| LBB | 030 | LUBBI | PI | FB | | 038.7 | ILDT | | R | | | AA 04700 | | EE A |
| PVW | 010 | PVW | IF | FB | | | | | | | | | | V |
| PVW | 020 | LUBBI | TF | FB | | | | | | | | AA 05100 | | E |
| PVW | 030 | LUBBI | PI | FB | | 038.7 | ILDT | | R | | | AA 04700 | | EE A |
| | 010 | CFFHF | IF | FB | | | ILDT | | | | | AA 04700 | | E I |
| | 020 | LUBBI | CF | FB | | 264.0 | ILDT | | | LBB | | AA 04500 | | E F |
| | 030 | RW26 | CF | FO | | 264.0 | ILDT | 3.06 | | | | AT 03305 | | GY M |
| | 040 | | CA | FB | | 263.7 | | | | | | AA 03800 | | M |
| | 050 | LBB | DF | FO | | | | | | | | AA 04800 | | VY |
| | 060 | LBB | HM | FO | | 125.0 | | | L | | | AA 04800 | | VE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| PVW | N340510.29 | W1014724.67 |
| CFFHF | N333947.31 | W1013606.18 |
| LUBBI | N333945.69 | W1014323.19 |
| ILDT (LOC) | N333943.96 | W1014934.35 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW26 | N333944.48 | W1014747.77 | 03253 | 52.3 |



| | | | | |
|--------------------------------------|--|----------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | I-LDT | ILS OR LOC RWY 26, AMDT 4B 5 JANUARY 2017 | AMDT: 4A |
| | | | | DATED: 04/02/2015 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
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 | MISSED APPROACH | |
|--------------------------------------|-----------------------------------|-----------------------|----------|--|--|
| LBB VORTAC | FRIER/I-LBB 4.68 DME/RADAR | 141.69 / 9.18 | 5200 | MAP: 4.19 MILES AFTER FRIER/I-LBB 4.68 DME/RADAR OR AT NOLOE/I-LBB 0.49 DME FIX | |
| FRITS/I-LBB 11.87 DME/RADAR (IF/IAF) | FRIER/I-LBB 4.68 DME/RADAR (NOPT) | 353.67 / 7.19 (I-LBB) | 4800 | CLIMB TO 4000 THEN CLIMBING RIGHT TURN TO 5200 ON HEADING 170 AND ON LBB VORTAC R-114 TO HYDRO INT/LBB 14.20 DME AND HOLD. | |
| | | | | ADDITIONAL FLIGHT DATA: HOLD SE, LT, 293.77 INBOUND. CHART FAS OBST: 3291 TREE 333829N/1014934W CHART 3511 TOWER 333401N/1014951W. CHART: 3430 PLANT 333632N/1014959W FRIER BCM TO RW35L: 2.89/54. CHART BACK COURSE MARKER AT FRIER. CHART CIRCLING ICON. CHART IN PLANVIEW ONLY LBB VORTAC 9.22 DME AT FRIER. | |

- PT R SIDE OF COURSE 173.67 OUTBOUND 5200 FT WITHIN 10 MILES OF FRIER (IAF)
-
- FAC 353.67 FAF FRIER/I-LBB 4.68 DME/RADAR DIST FAF TO MAP 4.19 THLD 4.91
- MIN. ALT FRITS 5200, FRIER 4800, ENZIE INT/I-LBB 1.63 DME/RADAR 3820
- MSA FROM: LBB VORTAC 5300

MAG VAR: 6E 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-35L | 3820 | 3/4 | 566 | 3820 | 3/4 | 566 | 3820 | 1 1/2 | 566 | 3820 | 1 1/2 | 566 | | | |
| CIRCLING | 3820 | 1 | 538 | 3820 | 1 | 538 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | | | |

ENZIE FIX MINIMUMS

| | | | | | | | | | | | | | | | |
|----------|------|-----|-----|------|-----|-----|------|-------|-----|------|-----|-----|--|--|--|
| S-35L | 3560 | 3/4 | 306 | 3560 | 3/4 | 306 | 3560 | 3/4 | 306 | 3560 | 3/4 | 306 | | | |
| CIRCLING | 3720 | 1 | 438 | 3740 | 1 | 458 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | | | |

NOTES:

- CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.
- CHART PROFILE NOTE: DISREGARD GS INDICATIONS.
- CHART NOTE: FOR INOPERATIVE ODALS, INCREASE CAT C/D VISIBILITY TO 1 5/8 MILE.
- CHART NOTE: ENZIE FIX MINIMUMS, FOR INOPERATIVE ODALS, INCREASE CAT C/D VISIBILITY TO 7/8 MILE.



| | | | | |
|--------------------------------------|--|--------------------------------------|---|------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 | FACILITY IDENTIFIER: I-LBB | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC BC RWY 35L, AMDT 19 01/05/2017 | SUP |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | | AMDT 18C |
| | | | | DATE 10/18/2012 |

**LOC STANDARD INSTRUMENT APPROACH PROCEDURE
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.



| | | | | |
|--------------------------------------|---|--------------------------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: I-LBB | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC BC RWY 35L, AMDT 19 01/05/2017 | SUP: |
| | | | | AMDT: 18C |
| | | | | DATED: 10/18/2012 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC BC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| LBB | 010 | LBB | IF | FB | | | | | | | | | | V |
| LBB | 020 | FRIER | TF | FB | | | | | | | | AA 05200 | | E |
| LBB | 030 | FRIER | PI | FB | | 218.7 | ILBB | | L | | | AA 05200 | | EE A |
| | 010 | FRITS | IF | FB | | | ILBB | | | | | AA 05200 | | E D |
| | 020 | FRIER | CF | FB | | 354.0 | ILBB | | | LBB | | AA 04800 | | E F |
| | 021 | ENZIE | CF | FB | | 354.0 | ILBB | 2.89 | | | | AA 03820 | | E S |
| | 030 | NOLOE | CF | FO | | 354.0 | ILBB | 2.89 | | | | AT 03517 | | EY M |
| | 040 | | CA | FB | | 353.7 | | | | | | AA 04000 | | M |
| | 050 | | VI | FB | | 170.0 | | | R | | | | | |
| | 060 | HYDRO | CF | FO | | 113.8 | LBB | | | | | AA 05200 | | EY |
| | 070 | HYDRO | HM | FO | | 293.8 | | | L | | | AA 05200 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| ILBB (DME) | N333848.98 | W1014940.24 |
| HYDRO | N333410.25 | W1014052.84 |
| ENZIE | N333711.16 | W1014942.95 |
| FRIER | N333407.53 | W1014941.71 |
| FRITS | N332655.41 | W1014939.02 |
| NOLOE | N333819.54 | W1014943.45 |
| ILBB (LOC) | N333849.22 | W1014943.65 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW35L | N333902.74 | W1014943.74 | 03243 | 54 |



| | | | | |
|--------------------------------------|--|----------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | I-LBB | LOC BC RWY 35L, AMDT 19 01/05/2017 | AMDT: 18C |
| | | | | DATED: 10/18/2012 |

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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-------------|------------|----------------------------|-----------------|
| RW08 (MAP) | 3458 MSL | 083.61 | |
| 3458 MSL | CELRA (FO) | | 5000 |

NOTES, (CONT.):
 SLIDE ON V76 SOUTH BOUND.
 *LNAV ONLY



| | | | | | |
|--------------------------------------|---|------------|-------------------------------------|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | TDZE: 3258 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 2B 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 2A |
| | | | | | DATED: 04/02/2015 |

**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 | KLBB |
| RUNWAY | RW08 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W08A |
| LTP/FTP LATITUDE | 333944.0200N |
| LTP/FTP LONGITUDE | 1014922.4350W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09680 |
| FPAP LATITUDE | 333944.5370N |
| FPAP LONGITUDE | 1014735.6885W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00050.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0312 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 35.0 |
| <u>CRC REMAINDER</u> | 8F481DD3 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +09931 |
| FPAP ORTHOMETRIC HEIGHT | +09931 |



| | | | | |
|--------------------------------------|--|-------------------------------------|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3258 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 2B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 2A |
| | | | | DATED: 04/02/2015 |

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

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ARINC SUMMARY - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| SLIDE | 010 | SLIDE | IF | FB | | | | | | | | | | E |
| SLIDE | 020 | JUVAL | TF | FB | 2.0 | 318.8 | | | | | | AA 05100 | | E A |
| SLIDE | 030 | KAPWU | TF | FB | 1.0 | 014.8 | | | | | | AA 05100 | | EE B |
| SPADE | 010 | SPADE | IF | FB | | | | | | | | | | E A |
| SPADE | 020 | KAPWU | TF | FB | 1.0 | 152.4 | | | | | | AA 05100 | | EE B |
| | 010 | KAPWU | IF | FB | | | | | | | | AA 05100 | | E I |
| | 020 | CAVSI | TF | FB | 0.5 | 083.6 | | | | RW08 | | AA 04700 | | E F |
| | 021 | WUMBA | TF | FB | 0.3 | 083.6 | | 3.00 | | | | AA 03740 GS 03754 | | E S |
| | 030 | RW08 | TF | FO | 0.3 | 083.6 | | 3.00 | | | | AT 03308 | | GY M |
| | 040 | | CA | FB | | 083.6 | | | | | | AA 03458 | | M |
| | 050 | CELRA | DF | FO | | | | | | | | AA 05000 | | EY |
| | 060 | CELRA | HM | FO | | 263.8 | | | R | | | AA 05000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CAVSI | N333942.35 | W1015436.56 |
| CELRA | N333947.56 | W1013444.95 |
| JUVAL | N332434.97 | W1020855.40 |
| KAPWU | N333939.62 | W1020205.30 |
| SLIDE | N331331.43 | W1015936.15 |
| SPADE | N335439.69 | W1020910.64 |
| WUMBA | N333943.51 | W1015103.08 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW08 | N333944.02 | W1014922.44 | 03258 | 50 |



| | | | | |
|--------------------------------------|--|---|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3258 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 2B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | | AMDT: 2A |
| | | | | DATED: 04/02/2015 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-----------------------------------|----------------------------|---------------------|----------|
| FLOYD | EVENE (FB) | 233.91 / 13.07 | 5000 |
| SLIDE | FASRA (FB) | 055.03 / 29.22 | 5000 |
| EVENE (IAF) | CELRA (FB) | 194.88 / 13.03 | 5000 |
| FASRA (IAF) | CELRA (FB) | 332.56 / 13.03 | 5000 |
| CELRA (IF) | FIKNA (FB) | 263.79 / 6.50 | 4700 |
| FIKNA (FAF) (SEE FORM 8260-10) | WOXIL/1.20 NM TO RW26 (FB) | 263.72 / 3.19 | |

LPV: DA
LNAV/VNAV: DA
LNAV: RW26

CLIMB TO 5100 DIRECT KAPWU AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 083.55 INBOUND.
CHART FAS OBST: 3307 POLE 333958N/1014704W
DISTANCE TO THLD FROM 200 HAT: 0.47 NM.
WAAS CHANNEL # 45528
REFERENCE PATH ID: W26A
CHART CIRCLING ICON
LTP HAE: 966.2 M

MAG VAR: 6E EPOCH YEAR: 2020

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT CELRA
- FAC: 263.72 FAF: FIKNA DIST FAF TO MAP: 4.39 THLD: 4.39
- MIN. ALT: CELRA 5000, FIKNA 4700, WOXIL/1.20 NM TO RW26 3680*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 4700 GS ALT AT: FIKNA 4700 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 50.0 34:1 IS CLEAR
- MSA FROM: RW26 5300

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 | 3455 | 2400 | 200 | 3455 | 2400 | 200 | 3455 | 2400 | 200 | 3455 | 2400 | 200 | 3455 | 2400 | 200 |
| LNAV/VNAV DA | 3578 | 3000 | 323 | 3578 | 3000 | 323 | 3578 | 3000 | 323 | 3578 | 3000 | 323 | 3578 | 3000 | 323 |
| LNAV MDA | 3560 | 2400 | 305 | 3560 | 2400 | 305 | 3560 | 2400 | 305 | 3560 | 2400 | 305 | 3560 | 2400 | 305 |
| CIRCLING | 3720 | 1 | 438 | 3740 | 1 | 458 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | 4100 | 3 | 818 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12C (11F) OR ABOVE 52C (126F). @ CAT E 900-3
CHART NOTE: DME/DME RNP-0.3 NA.
*LNAV ONLY
(CONTINUED ON PAGE 2)



| | | | | |
|--------------------------------------|---|-------------------------------------|--|--|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 2B 5 JANUARY 2017 | SUP: AMDT: 2A DATED 04/02/2015 |
|--------------------------------------|---|-------------------------------------|--|--|

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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-----------------------|-----------------|----------------------------|-----------------|
| WOXIL/1.20 NM TO RW26 | RW26 (MAP) (FO) | 263.72 / 1.20 | |
| RW26 (MAP) | 3455 MSL | 263.72 | |
| 3455 MSL | KAPWU (FO) | | 5100 |

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT FLOYD ON V14 NORTHEAST BOUND AND V278 SOUTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SLIDE ON V76-81 NORTH BOUND.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000.



| | | | | |
|--------------------------------------|--|-------------------------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 2B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 2A |
| | | | | DATED: 04/02/2015 |

**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 | KLBB |
| RUNWAY | RW26 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W26A |
| LTP/FTP LATITUDE | 333944.4810N |
| LTP/FTP LONGITUDE | 1014747.7725W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09662 |
| FPAP LATITUDE | 333943.9535N |
| FPAP LONGITUDE | 1014934.5185W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00050.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0312 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 35.0 |

CRC REMAINDER 93FBAFC8

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +09914 |
| FPAP ORTHOMETRIC HEIGHT | +09914 |



| | | | | |
|--------------------------------------|--|-------------------------------------|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 2B 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 2A |
| | | | | DATED: 04/02/2015 |

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

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ARINC SUMMARY - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| FLOYD | 010 | FLOYD | IF | FB | | | | | | | | | | E |
| FLOYD | 020 | EVENE | TF | FB | 2.0 | 233.9 | | | | | | AA 05000 | | E A |
| FLOYD | 030 | CELRA | TF | FB | 1.0 | 194.9 | | | | | | AA 05000 | | EE B |
| SLIDE | 010 | SLIDE | IF | FB | | | | | | | | | | E |
| SLIDE | 020 | FASRA | TF | FB | 2.0 | 055.0 | | | | | | AA 05000 | | E A |
| SLIDE | 030 | CELRA | TF | FB | 1.0 | 332.6 | | | | | | AA 05000 | | EE B |
| | 010 | CELRA | IF | FB | | | | | | | | AA 05000 | | E I |
| | 020 | FIKNA | TF | FB | 0.5 | 263.8 | | | | RW26 | | AA 04700 | | E F |
| | 021 | WOXIL | TF | FB | 0.3 | 263.7 | | 3.00 | | | | AA 03680 GS 03685 | | E S |
| | 030 | RW26 | TF | FO | 0.3 | 263.7 | | 3.00 | | | | AT 03303 | | GY M |
| | 040 | | CA | FB | | 263.7 | | | | | | AA 03455 | | M |
| | 050 | KAPWU | DF | FO | | | | | | | | AA 05100 | | EY |
| | 060 | KAPWU | HM | FO | | 083.6 | | | R | | | AA 05100 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| CELRA | N333947.56 | W1013444.95 |
| EVENE | N335159.47 | W1012911.09 |
| FASRA | N332738.63 | W1012902.61 |
| FIKNA | N333945.89 | W1014232.36 |
| FLOYD | N335834.19 | W1011536.06 |
| KAPWU | N333939.62 | W1020205.30 |
| SLIDE | N331331.43 | W1015936.15 |
| WOXIL | N333944.89 | W1014621.51 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW26 | N333944.48 | W1014747.77 | 03253 | 50 |



| | | | | |
|--------------------------------------|--|---|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3255 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | RNAV (GPS) RWY 26, AMDT 2B | AMDT: 2A |
| | | | 5 JANUARY 2017 | DATED: 04/02/2015 |

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|------------------|---------------------|----------|
| FLOYD | HOFB (FB) | 240.10 / 20.23 | 5200 |
| SPADE | ONEXY (FB) | 119.88 / 7.57 | 5100 |
| HOFB (IAF) | TUDPY (FB) | 263.78 / 10.00 | 5100 |
| ONEXY (IAF) | TUDPY (FB) | 083.56 / 10.00 | 5100 |
| TUDPY (IF) | ZIRIN (FB) | 173.67 / 6.01 | 4400 |
| ZIRIN (FAF) | RW17R (MAP) (FO) | 173.67 / 3.31 | |
| RW17R (MAP) | 3482 MSL | 173.67 | |
| 3482 MSL | ZOVOC (FO) | | 5400 |

LPV: DA
LNAV/VNAV: DA
LNAV: RW17R

CLIMB TO 5400 DIRECT ZOVOC AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 353.67 INBOUND.
CHART FAS OBST: 3346 ELEVATOR 334159N/1015003W
CHART FAS OBST: 3330 TOWER 334142N/1015033W
3504 AAO 334408N/1014839W
DISTANCE TO THLD FROM 200 HAT: 0.46 NM.
CHART VDP AT 1.02 MILES TO RW17R*
*LNAV ONLY.
WAAS CHANNEL # 40028
REFERENCE PATH ID: W17A
CHART CIRCLING ICON
LTP HAE: 975.4 M

MAG VAR: 6E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT TUDPY
3. FAC: 173.67 FAF: ZIRIN DIST FAF TO MAP: 3.31 THLD: 3.31
4. MIN. ALT: TUDPY 5100, ZIRIN 4400
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 4400 GS ALT AT: ZIRIN 4400 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 53.2 34:1 IS CLEAR
8. MSA FROM: RW17R 5300

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 | 3482 | 2400 | 200 | 3482 | 2400 | 200 | 3482 | 2400 | 200 | 3482 | 2400 | 200 | 3482 | 2400 | 200 |
| LNAV/VNAV DA | 3591 | 2400 | 309 | 3591 | 2400 | 309 | 3591 | 2400 | 309 | 3591 | 2400 | 309 | 3591 | 2400 | 309 |
| LNAV MDA | 3600 | 2400 | 318 | 3600 | 2400 | 318 | 3600 | 2400 | 318 | 3600 | 2400 | 318 | 3600 | 2400 | 318 |
| CIRCLING | 3720 | 1 | 438 | 3740 | 1 | 458 | 3880 | 1 1/2 | 598 | 3940 | 2 | 658 | 4100 | 3 | 818 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12C (11F) OR ABOVE 51C @ CAT E 900-3 (125F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: FOR INOPERATIVE MALSR INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E (CONTINUED ON PAGE 2)



| | | | | |
|--------------------------------------|---|-------------------------------------|---|---|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17R, AMDT 2A 5 JANUARY 2017 | SUP: AMDT: 2 DATED 09/23/2010 |
|--------------------------------------|---|-------------------------------------|---|---|

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 TO RVR 5000 AND LNAV CAT C/D/E VISIBILITY TO RVR 4500.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT SPADE ON V62 NORTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT FLOYD ON V278 EAST BOUND AND V14 NORTHEAST BOUND.

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



| | | | | |
|--------------------------------------|--|-------------------------------------|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17R, AMDT 2A 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 2 |
| | | | | DATED: 09/23/2010 |

**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 | KLBB |
| RUNWAY | RW17R |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | Y |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W17A |
| LTP/FTP LATITUDE | 334056.4945N |
| LTP/FTP LONGITUDE | 1014944.5305W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09754 |
| FPAP LATITUDE | 333902.7440N |
| FPAP LONGITUDE | 1014943.7490W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00053.2 |
| 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 F6D7D191

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +10005 |
| FPAP ORTHOMETRIC HEIGHT | +10005 |



| | | | | |
|--------------------------------------|--|-------------------------------------|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17R, AMDT 2A 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 2 |
| | | | | DATED: 09/23/2010 |

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

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ARINC SUMMARY - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| FLOYD | 010 | FLOYD | IF | FB | | | | | | | | | | E |
| FLOYD | 020 | HOFOB | TF | FB | 2.0 | 240.1 | | | | | | AA 05200 | | E A |
| FLOYD | 030 | TUDPY | TF | FB | 1.0 | 263.8 | | | | | | AA 05100 | | EE B |
| SPADE | 010 | SPADE | IF | FB | | | | | | | | | | E |
| SPADE | 020 | ONEXY | TF | FB | 2.0 | 119.9 | | | | | | AA 05100 | | E A |
| SPADE | 030 | TUDPY | TF | FB | 1.0 | 083.6 | | | | | | AA 05100 | | EE B |
| | 010 | TUDPY | IF | FB | | | | | | | | AA 05100 | | E I |
| | 020 | ZIRIN | TF | FB | 0.5 | 173.7 | | | | RW17R | | AA 04400 | | E F |
| | 030 | RW17R | TF | FO | 0.3 | 173.7 | | 3.00 | | | | AT 03336 | | GY M |
| | 040 | | CA | FB | | 173.7 | | | | | | AA 03482 | | M |
| | 050 | ZOVOC | DF | FO | | | | | | | | AA 05400 | | EY |
| | 060 | ZOVOC | HM | FO | | 353.7 | | | R | | | AA 05400 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| FLOYD | N335834.19 | W1011536.06 |
| HOFOB | N335019.59 | W1013748.09 |
| ONEXY | N335012.66 | W1020148.69 |
| SPADE | N335439.69 | W1020910.64 |
| TUDPY | N335016.71 | W1014948.40 |
| ZIRIN | N334415.58 | W1014945.90 |
| ZOVOC | N332823.35 | W1014939.35 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW17R | N334056.49 | W1014944.53 | 03282 | 53 |



| | | | | |
|--------------------------------------|--|---|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | RNAV (GPS) Y RWY 17R, AMDT 2A | AMDT: 2 |
| | | | 5 JANUARY 2017 | DATED: 09/23/2010 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|------------------|---------------------|----------|
| MANIC | OGHUS (FB) | 060.83 / 18.24 | 5200 |
| RALLS | EMUMY (FB) | 217.00 / 21.27 | 5200 |
| EMUMY (IAF) | ZOVOC (FB) | 263.78 / 10.00 | 5200 |
| OGHUS (IAF) | ZOVOC (FB) | 083.67 / 10.31 | 5200 |
| ZOVOC (IF) | UFACI (FB) | 353.67 / 6.28 | 4700 |
| UFACI (FAF) | RW35L (MAP) (FO) | 353.67 / 4.35 | |
| RW35L (MAP) | 3454 MSL | 353.67 | |
| 3454 MSL | TUDPY (FO) | | 5400 |

LPV: DA
LNAV/VNAV: DA
LNAV: RW35L

CLIMB TO 5400 DIRECT TUDPY AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 173.67 INBOUND.
CHART FAS OBST: 3360 TOWER 333839N/1015022W
CHART FAS OBST: 3518 TOWER 333605N/1015017W
CHART: 3570 TOWER 333448N/1015048W
DISTANCE TO THLD FROM 200 HAT: 0.49 NM.
CHART VDP AT 1.64 MILES TO RW35L*
*LNAV ONLY.
WAAS CHANNEL # 50128
REFERENCE PATH ID: W35A
CHART CIRCLING ICON
LTP HAE: 963.3 M

MAG VAR: 6E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT ZOVOC
3. FAC: 353.67 FAF: UFACI DIST FAF TO MAP: 4.35 THLD: 4.35
4. MIN. ALT: ZOVOC 5200, UFACI 4700
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 4700 GS ALT AT: UFACI 4700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 54.0 34:1 IS CLEAR
8. MSA FROM: RW35L 5300

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 | 3454 | 3/4 | 200 | 3454 | 3/4 | 200 | 3454 | 3/4 | 200 | 3454 | 3/4 | 200 | 3454 | 3/4 | 200 |
| LNAV/VNAV DA | 3673 | 1 1/4 | 419 | 3673 | 1 1/4 | 419 | 3673 | 1 1/4 | 419 | 3673 | 1 1/4 | 419 | 3673 | 1 1/4 | 419 |
| LNAV MDA | 3820 | 3/4 | 566 | 3820 | 3/4 | 566 | 3820 | 1 1/2 | 566 | 3820 | 1 1/2 | 566 | 3820 | 1 1/2 | 566 |
| CIRCLING | 3820 | 1 | 538 | 3820 | 1 | 538 | 3880 | 1 5/8 | 598 | 3940 | 2 | 658 | 4100 | 3 | 818 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12C (11F) OR ABOVE 51C (125F).
CHART NOTE: DME/DME RNP-0.3 NA.
(CONTINUED ON PAGE 2)

@ CAT E 900-3



| | | | | |
|--------------------------------------|--|-------------------------------------|--|---|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35L, AMDT 2A 5 JANUARY 2017 | SUP: AMDT: 2 DATED 09/23/2010 |
|--------------------------------------|--|-------------------------------------|--|---|

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: FOR INOPERATIVE ODALS, INCREASE LNAV/VNAV VISIBILITY TO 1 3/8 MILE ALL CATS, AND LNAV VISIBILITY CATS C/D/E TO 1 5/8 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MANIC ON V102 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RALLS ON V102 EAST BOUND.



| | | | | | |
|--------------------------------------|---|------------|-------------------------------------|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | TDZE: 3254 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35L, AMDT 2A 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 2 |
| | | | | | DATED: 09/23/2010 |

**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 | KLBB |
| RUNWAY | RW35L |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | Y |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W35A |
| LTP/FTP LATITUDE | 333902.7440N |
| LTP/FTP LONGITUDE | 1014943.7415W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09633 |
| FPAP LATITUDE | 334056.4945N |
| FPAP LONGITUDE | 1014944.5305W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00054.0 |
| 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 3C24395D

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +09883 |
| FPAP ORTHOMETRIC HEIGHT | +09883 |



| | | | | | |
|-------------------------------|---|------------|------------------------------|---|-------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 | TDZE: 3254 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35L, AMDT 2A 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | | | AMDT: 2 |
| | | | | | DATED: 09/23/2010 |

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

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ARINC SUMMARY - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| MANIC | 010 | MANIC | IF | FB | | | | | | | | | | E |
| MANIC | 020 | OGHUS | TF | FB | 2.0 | 060.8 | | | | | | AA 05200 | | E A |
| MANIC | 030 | ZOVOC | TF | FB | 1.0 | 083.7 | | | | | | AA 05200 | | EE B |
| RALLS | 010 | RALLS | IF | FB | | | | | | | | | | E |
| RALLS | 020 | EMUMY | TF | FB | 2.0 | 217.0 | | | | | | AA 05200 | | E A |
| RALLS | 030 | ZOVOC | TF | FB | 1.0 | 263.8 | | | | | | AA 05200 | | EE B |
| | 010 | ZOVOC | IF | FB | | | | | | | | AA 05200 | | E I |
| | 020 | UFACI | TF | FB | 0.5 | 353.7 | | | | RW35L | | AA 04700 | | E F |
| | 030 | RW35L | TF | FO | 0.3 | 353.7 | | 3.00 | | | | AT 03297 | | GY M |
| | 040 | | CA | FB | | 353.7 | | | | | | AA 03454 | | M |
| | 050 | TUDPY | DF | FO | | | | | | | | AA 05400 | | EY |
| | 060 | TUDPY | HM | FO | | 173.7 | | | R | | | AA 05400 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| EMUMY | N332826.24 | W1013742.08 |
| MANIC | N332110.63 | W1022201.77 |
| OGHUS | N332820.39 | W1020158.93 |
| RALLS | N334402.68 | W1012021.41 |
| TUDPY | N335016.71 | W1014948.40 |
| UFACI | N333441.00 | W1014941.94 |
| ZOVOC | N332823.35 | W1014939.35 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW35L | N333902.74 | W1014943.74 | 03243 | 54 |



| | | | | |
|--------------------------------------|--|---|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 35L, AMDT 2A | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | 5 JANUARY 2017 | AMDT: 2 |
| | | | | DATED: 09/23/2010 |

**RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE,
TITLE 14 CFR PART 97.33**

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| TERMINAL ROUTES | | | | MISSED APPROACH |
|--------------------|----------------------------|---------------------|----------|--|
| FROM | TO | COURSE AND DISTANCE | ALTITUDE | RNP: DA |
| FLOYD | HOF0B (TF) (FB) (RNP 2.00) | 240.10 / 20.23 | 5200 | CLIMB TO 5400 ON TRACK 173.67 TO ZOVOC AND HOLD. |
| HOF0B (IAF) | TUDPY (TF) (FB) (RNP 1.00) | 263.78 / 10.00 | 5100 | |
| SPADE | ONEXY (TF) (FB) (RNP 2.00) | 119.88 / 7.57 | 5100 | |
| ONEXY (IAF) | TUDPY (TF) (FB) (RNP 1.00) | 083.56 / 10.00 | 5100 | |
| TUDPY (IF) | ZIRIN (TF) (FB) (RNP 0.50) | 173.67 / 6.01 | 4400 | ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.67 INBOUND. DISTANCE TO THLD FROM 267 HAT: 0.67 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 3334.70 (DO NOT CHART) |
| (SEE FORM 8260-10) | | | | |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT TUDPY
- FAC: 173.67 FAF: DIST FAF TO MAP: THLD:
- MIN. ALT: TUDPY 5100, ZIRIN 4400
- DIST TO THLD FROM OM: 3.31 MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 4400 GS ALT AT: ZIRIN 4400 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 52.3# 34:1 IS CLEAR
- MSA FROM: RW17R 5300

MAG VAR: 6E 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 0.16 DA | 3549 | 2400 | 267 | 3549 | 2400 | 267 | 3549 | 2400 | 267 | 3549 | 2400 | 267 | | | |
| RNP 0.30 DA | 3639 | 4000 | 357 | 3639 | 4000 | 357 | 3639 | 4000 | 357 | 3639 | 4000 | 357 | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 51C (125F).
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPADE ON V62 NORTHWEST BOUND AND AT FLOYD ON V14 (SEE FORM 8260-10)



| | | | | |
|-------------------------------|---|------------------------------|--|--|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 17R, ORIG-B 5 JANUARY 2017 | SUP: AMDT: ORIG-A DATED 06/30/2011 |
|-------------------------------|---|------------------------------|--|--|

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 |
|-------------|---------------------------|---------------------|----------|
| ZIRIN | RW17R (MAP) (TF) (FO) | 173.67 / 3.31 | |
| RW17R (MAP) | ZOVOC (TF) (FO) (RNP1.00) | 173.67 / 12.53 | 5400 |

NOTES, (CONT.):

NORTHEAST BOUND AND ON V278 EASTBOUND.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/ TCH {FEET}).
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.16 ALL CATS VISIBILITY TO RVR 4500 AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000.



| | | | | | |
|-------------------------------|---|------------|------------------------------|---|-------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 | TDZE: 3282 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 17R, ORIG-B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | | | AMDT: ORIG-A |
| | | | | | 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 - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| FLOYD | 010 | FLOYD | IF | FB | | | | | | | | | | E |
| FLOYD | 020 | HOFOB | TF | FB | 2.0 | | | | | | | AA 05200 | | E A |
| FLOYD | 030 | TUDPY | TF | FB | 1.0 | | | | | | | AA 05100 | | EE B |
| SPADE | 010 | SPADE | IF | FB | | | | | | | | | | E |
| SPADE | 020 | ONEXY | TF | FB | 2.0 | | | | | | | AA 05100 | | E A |
| SPADE | 030 | TUDPY | TF | FB | 1.0 | | | | | | | AA 05100 | | EE B |
| | 010 | TUDPY | IF | FB | | | | | | | | AA 05100 | | E I |
| | 020 | ZIRIN | TF | FB | 0.5 | | | | | RW17R | | AA 04400 | | E F |
| | 030 | RW17R | TF | FO | 0.3 | | | 3.00 | | | | AT 03335 | | GY M |
| | 040 | ZOVOC | TF | FO | 1.0 | | | | | | | AA 05400 | | EYM |
| | 050 | ZOVOC | HM | FO | | 353.7 | | | R | | | AA 05400 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| FLOYD | N335834.19 | W1011536.06 |
| SPADE | N335439.69 | W1020910.64 |
| HOFOB | N335019.59 | W1013748.09 |
| ONEXY | N335012.66 | W1020148.69 |
| TUDPY | N335016.71 | W1014948.40 |
| ZIRIN | N334415.58 | W1014945.90 |
| ZOVOC | N332823.35 | W1014939.35 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW17R | N334056.49 | W1014944.53 | 03282 | 52.3 |

QUALITY
15
CHECKED

| | | | | |
|--------------------------------------|--|---|---|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3282 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 17R, ORIG-B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | | AMDT: ORIG-A |
| | | | | DATED: 06/30/2011 |

**RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE,
TITLE 14 CFR PART 97.33**

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| TERMINAL ROUTES | | | | MISSED APPROACH |
|--------------------|----------------------------|---------------------|----------|---|
| FROM | TO | COURSE AND DISTANCE | ALTITUDE | RNP: DA |
| RUKTE | JUNVA (TF) (FB) (RNP 2.00) | 069.87 / 27.79 | 5200 | CLIMB TO 5400 ON TRACK 353.67 TO TUDPY AND HOLD. |
| RALLS | EMUMY (TF) (FB) (RNP 2.00) | 217.00 / 21.27 | 5200 | |
| JUNVA (IAF) | ZOVOC (TF) (FB) (RNP 1.00) | 039.51 / 10.16 | 5200 | |
| EMUMY (IAF) | ZOVOC (TF) (FB) (RNP 1.00) | 263.78 / 10.00 | 5200 | |
| ZOVOC (IF) | UFACI (TF) (FB) (RNP 0.50) | 353.67 / 6.28 | 4700 | |
| (SEE FORM 8260-10) | | | | ADDITIONAL FLIGHT DATA: HOLD N, RT, 173.67 INBOUND. DISTANCE TO THLD FROM 305 HAT: 0.82 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 3296.50 MSL (DO NOT CHART) |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT ZOVOC
3. FAC: 353.67 FAF: DIST FAF TO MAP: THLD:
4. MIN. ALT: ZOVOC 5200, UFACI 4700
5. DIST TO THLD FROM OM: 4.35 MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 4700 GS ALT AT: UFACI 4700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 54.0#
8. MSA FROM: RW35L 5300

MAG VAR: 6E 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 0.18 DA | 3559 | 7/8 | 305 | 3559 | 7/8 | 305 | 3559 | 7/8 | 305 | 3559 | 7/8 | 305 | | | |
| RNP 0.30 DA | 3620 | 1 1/8 | 366 | 3620 | 1 1/8 | 366 | 3620 | 1 1/8 | 366 | 3620 | 1 1/8 | 366 | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 51C (125F).
 CHART NOTE: GPS REQUIRED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RUKTE ON V102 SOUTHWEST BOUND.
 (SEE FORM 8260-10)



| | | | | |
|-------------------------------|---|------------------------------|--|--|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 35L, ORIG-B 5 JANUARY 2017 | SUP: AMDT: ORIG-A DATED 06/30/2011 |
|-------------------------------|---|------------------------------|--|--|

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

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TERMINAL ROUTES, (CONT.):

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|---------------------------|---------------------|----------|
| UFACI | RW35L (MAP) (TF) (FO) | 353.67 / 4.35 | |
| RW35L (MAP) | TUDPY (TF) (FO) (RNP1.00) | 353.67 / 11.21 | 5400 |

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RALLS ON V102 EASTBOUND.
 CHART NOTE: FOR INOPERATIVE ODALS, INCREASE RNP 0.18 DA ALL CATS VISIBILITY TO 1 MILE, AND RNP 0.30 DA ALL CATS VISIBILITY TO 1 1/4 MILE.



| | | | | | |
|-------------------------------|---|------------|------------------------------|---|-------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 | TDZE: 3254 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 35L, ORIG-B 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | | | AMDT: ORIG-A |
| | | | | | 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

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ARINC SUMMARY - KLBB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| RALLS | 010 | RALLS | IF | FB | | | | | | | | | | E |
| RALLS | 020 | EMUMY | TF | FB | 2.0 | | | | | | | AA 05200 | | E A |
| RALLS | 030 | ZOVOC | TF | FB | 1.0 | | | | | | | AA 05200 | | EE B |
| RUKTE | 010 | RUKTE | IF | FB | | | | | | | | | | E |
| RUKTE | 020 | JUNVA | TF | FB | 2.0 | | | | | | | AA 05200 | | E A |
| RUKTE | 030 | ZOVOC | TF | FB | 1.0 | | | | | | | AA 05200 | | EE B |
| | 010 | ZOVOC | IF | FB | | | | | | | | AA 05200 | | E I |
| | 020 | UFACI | TF | FB | 0.5 | | | | | RW35L | | AA 04700 | | E F |
| | 030 | RW35L | TF | FO | 0.3 | | | 3.00 | | | | AT 03297 | | GY M |
| | 040 | TUDPY | TF | FO | 1.0 | | | | | | | AA 05400 | | EYM |
| | 050 | TUDPY | HM | FO | | 173.7 | | | R | | | AA 05400 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| JUNVA | N332115.53 | W1015819.42 |
| RALLS | N334402.68 | W1012021.41 |
| RUKTE | N331431.86 | W1023030.10 |
| EMUMY | N332826.24 | W1013742.08 |
| TUDPY | N335016.71 | W1014948.40 |
| UFACI | N333441.00 | W1014941.94 |
| ZOVOC | N332823.35 | W1014939.35 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW35L | N333902.74 | W1014943.74 | 03243 | 54 |

QUALITY
15
CHECKED

| | | | | |
|--------------------------------------|--|---|--|--------------------------|
| CITY AND STATE LUBBOCK, TX | ELEVATION: 3282 TDZE: 3254 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: LUBBOCK PRESTON SMITH INTL | | RNAV (RNP) Z RWY 35L, ORIG-B | AMDT: ORIG-A |
| | | | 5 JANUARY 2017 | DATED: 06/30/2011 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-----------------------|----------------------------|---------------------|----------|
| LBB VORTAC (IAF) | JONON (NOPT) (FB) | 092.12 / 14.43 | 5300 |
| RALLS (IAF) | JONON (NOPT) (FB) | 249.37 / 14.98 | 5300 |
| JONON (IF/IAF) | CAPDU (FB) | 182.26 / 6.10 | 4700 |
| CAPDU (FAF) | WAGEG/2.20 NM TO RW18 (FB) | 182.25 / 2.63 | |
| WAGEG/2.20 NM TO RW18 | RW18 (MAP) (FO) | 182.25 / 2.20 | |
| RW18 (MAP) | 3427 MSL | 182.25 | |
| 3427 MSL | HAXEB (FO) | | 5000 |

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

CLIMB TO 5000 DIRECT HAXEB AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 002.22 INBOUND.
CHART FAS OBST: 3175 APBN 332909N/1013933W
DISTANCE TO THLD FROM 303 HAT: 0.83 NM.
WAAS CHANNEL # 42739
REFERENCE PATH ID: W18A
CHART CIRCLING ICON.
CHART LUBBOCK PRESTON SMITH INTL ASOS
LTP HAE: 926.8 M

MAG VAR: 6E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N JONON, RT, 182.26 INBOUND, 5300 FT. IN LIEU OF PT (IAF)
3. FAC: 182.25 FAF: CAPDU DIST FAF TO MAP: 4.83 THLD: 4.83
4. MIN. ALT: JONON 5300, CAPDU 4700, WAGEG/2.20 NM TO RW18 3860*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 4700 GS ALT AT: CAPDU 4700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM: RW18 5300

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 | 3427 | 1 | 303 | 3427 | 1 | 303 | 3427 | 1 | 303 | 3427 | 1 | 303 | | | |
| LNAV/VNAV DA | 3427 | 1 | 303 | 3427 | 1 | 303 | 3427 | 1 | 303 | 3427 | 1 | 303 | | | |
| LNAV MDA | 3480 | 1 | 356 | 3480 | 1 | 356 | 3480 | 1 | 356 | 3480 | 1 | 356 | | | |
| CIRCLING | 3680 | 1 | 556 | 3820 | 1 | 696 | 3820 | 2 | 696 | 3820 | 2 1/4 | 696 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: BARO-VNAV NA.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LBB VORTAC AIRWAY RADIALS 004 CW 177.



| | | | | |
|-------------------------------------|---|-------------------------------------|--|------------------------------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 TDZE: 3124 AIRPORT NAME: SLATON MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG 5 JANUARY 2017 | SUP: AMDT: NONE DATED |
|-------------------------------------|---|-------------------------------------|--|------------------------------------|

**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 | F49 |
| RUNWAY | RW18 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W18A |
| LTP/FTP LATITUDE | 332924.0620N |
| LTP/FTP LONGITUDE | 1013935.9455W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09268 |
| FPAP LATITUDE | 332755.7175N |
| FPAP LONGITUDE | 1013951.2100W |
| 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 | 1456 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | 0D263AA2 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +09518 |
| FPAP ORTHOMETRIC HEIGHT | +09518 |



| | | | | | |
|------------------------------|------------------------------|------------|------------------------------|---|------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 | TDZE: 3124 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: SLATON MUNI | | | | 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

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ARINC SUMMARY - F49

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| JONON | 010 | JONON | HF | FO | | 182.3 | | | R | | | AA 05300 | | EE A |
| LBB | 010 | LBB | IF | FB | | | | | | | | | | V A |
| LBB | 020 | JONON | TF | FB | 1.0 | 092.1 | | | | | | AA 05300 | | EE B |
| RALLS | 010 | RALLS | IF | FB | | | | | | | | | | E A |
| RALLS | 020 | JONON | TF | FB | 1.0 | 249.4 | | | | | | AA 05300 | | EE B |
| | 010 | JONON | IF | FB | | | | | | | | AA 05300 | | E I |
| | 020 | CAPDU | TF | FB | 1.0 | 182.3 | | | | RW18 | | AA 04700 | | E F |
| | 021 | WAGEG | TF | FB | 0.3 | 182.3 | | 3.00 | | | | AA 03860 GS 03863 | | E S |
| | 030 | RW18 | TF | FO | 0.3 | 182.3 | | 3.00 | | | | AT 03163 | | GY M |
| | 040 | | CA | FB | | 182.3 | | | | | | AA 03427 | | M |
| | 050 | HAXEB | DF | FO | 1.0 | | | | | | | AA 05000 | | EY |
| | 060 | HAXEB | HM | FO | | 002.2 | | | R | | | AA 05000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| RALLS | N334402.68 | W1012021.41 |
| CAPDU | N333411.19 | W1013846.27 |
| HAXEB | N331753.36 | W1014135.07 |
| JONON | N334014.07 | W1013743.37 |
| WAGEG | N333134.94 | W1013913.32 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW18 | N332924.06 | W1013935.95 | 03123 | 40 |



| | | | | |
|-------------------------------------|--|----------------------|--|-------------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 TDZE: 3124 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: SLATON MUNI | RNAV | RNAV (GPS) RWY 18, ORIG 5 JANUARY 2017 | AMDT: NONE |
| | | | | DATED: |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|----------------|-------------------|---------------------|----------|--|
| LBB VORTAC | HAXEB (FO) | 149.47 / 26.77 | 5100 | LPV: DA LNAV/VNAV: DA LNAV: RW36 |
| WATUS (IAF) | HAXEB (NOPT) (FB) | 317.25 / 5.00 | 5000 | |
| TAGAE (IAF) | HAXEB (NOPT) (FB) | 047.18 / 5.00 | 5000 | CLIMB TO 5300 DIRECT JONON AND HOLD. |
| HAXEB (IF/IAF) | CAGOX (FB) | 002.22 / 6.05 | 4700 | |
| CAGOX (FAF) | RW36 (MAP) (FO) | 002.23 / 4.86 | | ADDITIONAL FLIGHT DATA: HOLD N, RT, 182.26 INBOUND. CHART FAS OBST: 3456 TWR 332701N/1014009W DISTANCE TO THLD FROM 759 HAT: 2.29 NM. WAAS CHANNEL # 86939 REFERENCE PATH ID: W36A CHART CIRCLING ICON. CHART LUBBOCK PRESTON SMITH INTL ASOS LTP HAE: 923.7 M |
| RW36 (MAP) | 3524 MSL | 002.23 | | |
| 3524 MSL | JONON (FO) | | 5300 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD **S** HAXEB, RT, 002.22 INBOUND, 5000 FT. IN LIEU OF PT (IAF)
3. FAC: 002.23 FAF: CAGOX DIST FAF TO MAP: 4.86 THLD: 4.86
4. MIN. ALT: **HAXEB 5000, CAGOX 4700**
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 4700 GS ALT AT: **CAGOX 4700** OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 40.0 **34:1 IS NOT CLEAR**
8. MSA FROM: **RW36 5200**

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 | 3883 | 3 | 759 | 3883 | 3 | 759 | 3883 | 3 | 759 | 3883 | 3 | 759 | | | |
| LNAV/VNAV DA | 3849 | 3 | 725 | 3849 | 3 | 725 | 3849 | 3 | 725 | 3849 | 3 | 725 | | | |
| LNAV MDA | 3760 | 1 | 636 | 3760 | 1 | 636 | 3760 | 1 3/4 | 636 | 3760 | 1 3/4 | 636 | | | |
| CIRCLING | 3760 | 1 | 636 | 3820 | 1 | 696 | 3820 | 2 | 696 | 3820 | 2 1/4 | 696 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: BARO-VNAV NA.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LBB VORTAC AIRWAY RADIALS 075 CW 216.
 (CONTINUED ON PAGE 2)



| | | | | |
|-------------------------------------|---|-------------------------------------|---|------------------------------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 TDZE: 3124 AIRPORT NAME: SLATON MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG 5 JANUARY 2017 | SUP: AMDT: NONE 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 ADJACENT TO WATUS IAF: RADAR REQUIRED.
 CHART PLANVIEW NOTE ADJACENT TO TAGAE IAF: RADAR REQUIRED.



| | | | | |
|-------------------------------------|---|-------------------------------------|--|-------------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 TDZE: 3124 AIRPORT NAME: SLATON MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG 5 JANUARY 2017 | 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 | F49 |
| RUNWAY | RW36 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W36A |
| LTP/FTP LATITUDE | 332842.5120N |
| LTP/FTP LONGITUDE | 1013943.1250W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09237 |
| FPAP LATITUDE | 333010.8560N |
| FPAP LONGITUDE | 1013927.8540W |
| 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 | 1456 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER 60AAB79B

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +09487 |
| FPAP ORTHOMETRIC HEIGHT | +09487 |



| | | | | |
|------------------------------|------------------------------|------------------------------|---|------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 TDZE: 3124 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: SLATON MUNI | | | 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

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ARINC SUMMARY - F49

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| LBB | 010 | LBB | IF | FB | | | | | | | | | | V |
| LBB | 020 | HAXEB | TF | FO | 1.0 | 149.5 | | | | | | AA 05100 | | EY |
| LBB | 030 | HAXEB | HF | FO | | 002.2 | | | R | | | AA 05000 | | EE A |
| TAGAE | 010 | TAGAE | IF | FB | | | | | | | | | | E A |
| TAGAE | 020 | HAXEB | TF | FB | 1.0 | 047.2 | | | | | | AA 05000 | | EE B |
| WATUS | 010 | WATUS | IF | FB | | | | | | | | | | E A |
| WATUS | 020 | HAXEB | TF | FB | 1.0 | 317.3 | | | | | | AA 05000 | | EE B |
| | 010 | HAXEB | IF | FB | | | | | | | | AA 05000 | | E I |
| | 020 | CAGOX | TF | FB | 1.0 | 002.2 | | | | RW36 | | AA 04700 | | E F |
| | 030 | RW36 | TF | FO | 0.3 | 002.2 | | 3.00 | | | | AT 03153 | | GY M |
| | 040 | | CA | FB | | 002.2 | | | | | | AA 03524 | | M |
| | 050 | JONON | DF | FO | 1.0 | | | | | | | AA 05300 | | EY |
| | 060 | JONON | HM | FO | | 182.3 | | | R | | | AA 05300 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| LBB | N334217.82 | W1015450.44 |
| CAGOX | N332353.47 | W1014033.03 |
| HAXEB | N331753.36 | W1014135.07 |
| JONON | N334014.07 | W1013743.37 |
| TAGAE | N331453.30 | W1014621.58 |
| WATUS | N331352.57 | W1013800.93 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW36 | N332842.51 | W1013943.13 | 03113 | 40 |



| | | | | |
|-------------------------------------|--|----------------------|--|-------------------|
| CITY AND STATE SLATON, TX | ELEVATION: 3124 TDZE: 3124 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: SLATON MUNI | RNAV | RNAV (GPS) RWY 36, ORIG 5 JANUARY 2017 | AMDT: NONE |
| | | | | DATED: |

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|----------------|-----------------------|----------------|
| SLATON, TX | SLATON MUNI | 5 JANUARY 2017 | ORIG |

TAKEOFF MINIMUMS:

RWY 36: STANDARD.

RWY 18: 400-2 OR STANDARD WITH MINIMUM CLIMB OF 263 FT PER NM TO 3600.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 18, EQUIP 85 FT FROM DER, 369 FT LEFT OF CENTERLINE, 3115 FT MSL. TREES BEGINNING 278 FT FROM DER, 269 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/3145 FT MSL. TOWER 1.7 NM FROM DER, 698 FT RIGHT OF CENTERLINE, 348 FT AGL/3457 FT MSL.

NOTE: RWY 36, TREE 124 FT FROM DER, 518 FT LEFT OF CENTERLINE, 9 FT AGL/3127 FT MSL. TREE 711 FT FROM DER, 592 FT LEFT OF CENTERLINE, 3142 FT MSL. POLES BEGINNING 712 FT FROM DER, 261 FT LEFT OF CENTERLINE, UP TO 3146 FT MSL. TREE 831 FT FROM DER, 642 FT LEFT OF CENTERLINE, 46 FT AGL/3156 FT MSL. TREES BEGINNING 858 FT FROM DER, 642 FT LEFT OF CENTERLINE, UP TO 48 FT AGL/3158 FT MSL.

CONTROLLING OBSTACLES:

RWY 18: 3457 FT MSL COMMUNICATION TOWER 332700.84N/1014009.06W

REMARKS:

FLIGHT INSPECTED BY:

BRYAN VEIT

Digitally signed by

STEVEN A VARGAS

Nov 17, 2016

OFFICE SYMBOL:

FICO

DATE:

10/07/2016

DEVELOPED BY:

JOHN HAZELTON

JOHN E HAZELTON

*Digitally signed by JOHN E HAZELTON
Date: 2016.08.30 14:26:31 -05'00'*

OFFICE SYMBOL:

AJV-5422

DATE:

08/30/2016

APPROVED BY:

TONY LAWSON

Digitally signed by

STEVEN A VARGAS

Nov 16, 2016

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH AIRSPACE DOCKET 16-ASW-4

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER:

ZFW, LBB APP CON, AMGR

CHANGES - REASONS:

ORIG-AIRPORT REQUEST

11/16/16: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 11/15/16.

1. EDITED CITY NAME AND AIRPORT NAME FROM SLAYTON TO SLATON.



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR/DME 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.

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 5 JANUARY 2017

| | | | | |
|------------------------------------|---|------------------------------------|--|------------------------|
| CITY AND STATE TYLER, TX | ELEVATION: 544 TDZE: 539 AIRPORT NAME: TYLER POUNDS RGNL | FACILITY IDENTIFIER: TYR | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 22, AMDT 4A, 04/02/2015 | SUP |
| | | | | AMDT 4 |
| | | | | DATE 09/20/2012 |



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LDA - STANDARD
INSTRUMENT APPROACH PROCEDURE - 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.

NOTES, (CONT.):

CHART PROFILE NOTE: LOC UNUSABLE INSIDE 0.68 DME.

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

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LDA/GS 19 ALL CATS VISIBILITY TO 7/8 SM.



| | | | | | |
|--|--|-------------------|--------------------------------------|---|----------------------------|
| CITY AND STATE ST GEORGE, UT | ELEVATION: 2884 | TDZE: 2884 | FACILITY IDENTIFIER: I-SGU | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LDA RWY 19, ORIG-D 5 JANUARY 2017 | SUP: LDA/DME RWY 19 |
| | AIRPORT NAME: ST GEORGE RGNL | | | | AMDT: ORIG-C |
| | | | | | 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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|--------------------|-----------------------------|---------------------|----------|
| ENK VOR/DME | PIETZ (FB) | 186.00 / 11.85 | 16000 |
| PIETZ (IAF) | HOPEB (FB) | 185.95 / 8.00 | 12400 |
| HOPEB | IPPOD (FB) | 198.34 / 4.43 | 10300 |
| IPPOD (IF) | JIGAV (FB) | 198.31 / 9.80 | 7900 |
| JIGAV | PAYLR (FB) | 198.24 / 5.20 | 6300 |
| PAYLR (FAF) | OWTUJ/3.71 NM TO YEYUY (FB) | 198.09 / 5.75 | |
| (SEE FORM 8260-10) | | | |

LNAV: YEYUY

CLIMBING RIGHT TURN TO 9800 DIRECT HUNKU AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9800.

ADDITIONAL FLIGHT DATA:
HOLD S, LT, 019.93 INBOUND.
FAS OBST: 3679 AAO 370533N/1132747W
4079 AAO 371226N/1132527W
CHART VDP AT 2.55 NM TO YEYUY.
PAYLR TO RW19: 3.18/55.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE 7.10 DEGREES.

MAG VAR: 12E EPOCH YEAR: 2010

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT IPPOD
3. FAC: 198.09 FAF: PAYLR DIST FAF TO MAP: 9.46 THLD: 9.95
4. MIN. ALT: IPPOD 10300, JIGAV 7900, PAYLR 6300, OWTUJ/3.71 NM TO YEYUY 4300
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 CLEAR
8. MSA FROM: YEYUY 11900

MINIMUMS

| | | | | | | | | | | | | | | | | |
|------------------------|--|-------|---------|--------|-------|---------|----------------|-------|---------|--------|-------|---------|--------|-----|---------|--|
| TAKEOFF: <u> </u> | 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 | |
| LNAV MDA | 3940 | 3/4 | 1056 | 3940 | 1 | 1056 | 3940 | 2 1/2 | 1056 | 3940 | 2 1/2 | 1056 | | | | |
| CIRCLING | 3940 | 1 1/4 | 1056 | 3940 | 1 1/2 | 1056 | 3940 | 3 | 1056 | 3940 | 3 | 1056 | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT A, B 1100-2, CAT C, D 1100-3
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ENK VOR/DME AIRWAY RADIAL 181.



| | | | | |
|--|---|-------------------------------------|---|---|
| CITY AND STATE ST GEORGE, UT | ELEVATION: 2884 TDZE: 2884 AIRPORT NAME: ST GEORGE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-D 5 JANUARY 2017 | SUP: AMD T: ORIG-C DATED 05/26/2016 |
|--|---|-------------------------------------|---|---|

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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|------------------------|------------------|----------------------------|-----------------|
| OWTUJ/3.71 NM TO YEYUY | YEYUY (MAP) (FO) | 198.09 / 3.71 | |
| YEYUY (MAP) | 3284 MSL | 198.09 | |
| 3284 MSL | HUNKU (FO) | | 9800 |

QUALITY
5
CHECKED

| | | | | |
|--|--|-------------------------------------|--|--------------------------|
| CITY AND STATE ST GEORGE, UT | ELEVATION: 2884 TDZE: 2884 AIRPORT NAME: ST GEORGE RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-D 5 JANUARY 2017 | SUP: |
| | | | | AMDT: ORIG-C |
| | | | | 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

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ARINC SUMMARY - KSGU

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ENK | 010 | ENK | IF | FB | | | | | | | | | | V |
| ENK | 020 | PIETZ | TF | FB | 2.0 | 186.0 | | | | | | AA 16000 | | E A |
| ENK | 030 | HOPEB | TF | FB | 1.0 | 186.0 | | | | | | AA 12400 | | E |
| ENK | 040 | IPPOD | TF | FB | 1.0 | 198.3 | | | | | | AA 10300 | | EE B |
| | 010 | IPPOD | IF | FB | | | | | | | | AA 10300 | | E I |
| | 011 | JIGAV | TF | FB | 1.0 | 198.3 | | | | | | AA 07900 | | E |
| | 020 | PAYLR | TF | FB | 1.0 | 198.2 | | | | YEYUY | | AA 06300 | | E F |
| | 021 | OWTUJ | TF | FB | 0.3 | 198.1 | | 3.18 | | | | AA 04300 GS 04373 | | E S |
| | 030 | YEYUY | TF | FO | 0.3 | 198.1 | | 3.18 | | | | AT 03106 | | EY M |
| | 040 | | CA | FB | | 198.1 | | | | | | AA 03284 | | M |
| | 050 | HUNKU | DF | FO | 1.0 | | | | R | | | AA 09800 | | EY |
| | 060 | HUNKU | HM | FO | | 019.9 | | | L | | | AA 09800 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ENK | N374714.39 | W1130405.63 |
| HUNKU | N372153.88 | W1134842.19 |
| HOPEB | N372820.28 | W1131147.88 |
| IPPOD | N372430.65 | W1131436.33 |
| JIGAV | N371602.24 | W1132048.09 |
| OWTUJ | N370633.54 | W1132740.95 |
| PAYLR | N371132.32 | W1132404.76 |
| PIETZ | N373557.31 | W1130842.10 |
| YEYUY | N370320.59 | W1133000.23 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW19 | N370253.28 | W1133014.68 | 02884 | 55 |

QUALITY
5
CHECKED

| | | | | |
|--|--|----------------------|--|--------------------------|
| CITY AND STATE ST GEORGE, UT | ELEVATION: 2884 TDZE: 2884 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: ST GEORGE RGNL | RNAV | RNAV (GPS) RWY 19, ORIG-D 5 JANUARY 2017 | AMDT: ORIG-C |
| | | | | DATED: 05/26/2016 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|---|
| VEGHE (IAF) | ZAKEN (FB) | 304.39 / 8.23 | 2300 | LP: RW22 LNAV: RW22 |
| ZAKEN (IF) | WOLIB (FB) | 220.09 / 7.51 | 1800 | |
| WOLIB (FAF) | JOVAM/1.60 NM TO RW22 (FB) | 220.04 / 2.94 | | CLIMB TO 2000 DIRECT OLUCE AND HOLD. |
| JOVAM/1.60 NM TO RW22 | RW22 (MAP) (FO) | 220.04 / 1.60 | | |
| RW22 (MAP) | 440 MSL | 220.04 | | |
| 440 MSL | OLUCE (FO) | | 2000 | ADDITIONAL FLIGHT DATA: HOLD SW, RT, 039.92 INBOUND. CHART FAS OBST: 242 TWR 364237N/0763518W CHART FAS OBST: 177 TREE 364211N/0763457W 221 POLE 364236N/0763450W CHART VDP AT 0.88 NM TO RW22. WAAS CHANNEL # 99325 REFERENCE PATH ID: W22A CHART CIRCLING ICON. WOLIB TO RW22: 3.50/45 LTP HAE: -15.3 M |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT ZAKEN
3. FAC: 220.04 FAF: WOLIB DIST FAF TO MAP: 4.54 THLD: 4.54
4. MIN. ALT: ZAKEN 2300, WOLIB 1800, JOVAM/1.60 NM TO RW22 700
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: RW22 2300

MAG VAR: 10W EPOCH YEAR: 1995

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 | 440 | 1 | 371 | 440 | 1 | 371 | 440 | 1 | 371 | 440 | 1 | 371 | | | |
| LNAV MDA | 500 | 1 | 431 | 500 | 1 | 431 | 500 | 1 1/4 | 431 | 500 | 1 1/4 | 431 | | | |
| CIRCLING | 500 | 1 | 430 | 560 | 1 | 490 | 680 | 1 3/4 | 610 | 680 | 2 | 610 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT VEGHE ON V1 NORTHEAST BOUND.
 CHART NOTE: VDP NA WITH NORFOLK INTL ALTIMETER SETTING.
 (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY
4
CHECKED

| | | | | |
|-------------------------------|--|------------------------------|---|--------------------------------------|
| CITY AND STATE SUFFOLK, VA | ELEVATION: 70 TDZE: 69 AIRPORT NAME: SUFFOLK EXECUTIVE | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1A DATED 08/20/2015 |
|-------------------------------|--|------------------------------|---|--------------------------------------|

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: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NORFOLK INTL ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, AND INCREASE LP CATS C AND D VISIBILITY 1/4 MILE AND LNAV CATS C AND D VISIBILITY 1/8 MILE.

| | | | | | |
|--------------------------------------|---|-----------------|-------------------------------------|--|--------------------------|
| CITY AND STATE SUFFOLK, VA | ELEVATION: 70 | TDZE: 69 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: 4 |
| | AIRPORT NAME: SUFFOLK EXECUTIVE | | | | AMDT: 1A |
| | | | | | DATED: 08/20/2015 |

QUALITY
4
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 | KSFQ |
| RUNWAY | RW22 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W22A |
| LTP/FTP LATITUDE | 364116.9910N |
| LTP/FTP LONGITUDE | 0763538.0100W |
| LTP/FTP ELLIPSOIDAL HEIGHT | -00153 |
| FPAP LATITUDE | 363959.7295N |
| FPAP LONGITUDE | 0763633.4015W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00045.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.50 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1224 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 0.0 |

CRC REMAINDER EDAFF7EF

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K6 |
| LTP ORTHOMETRIC HEIGHT | +00210 |
| FPAP ORTHOMETRIC HEIGHT | +00210 |



| | | | | | |
|-------------------------------|------------------------------------|----------|------------------------------|---|-------------------|
| CITY AND STATE SUFFOLK, VA | ELEVATION: 70 | TDZE: 69 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 5 JANUARY 2017 | SUP: 4 |
| | AIRPORT NAME: SUFFOLK EXECUTIVE | | | | AMDT: 1A |
| | | | | | DATED: 08/20/2015 |

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

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ARINC SUMMARY - KSFQ

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| VEGHE | 010 | VEGHE | IF | FB | | | | | | | | | | E A |
| VEGHE | 020 | ZAKEN | TF | FB | 1.0 | 304.4 | | | | | | AA 02300 | | EE B |
| | 010 | ZAKEN | IF | FB | | | | | | | | AA 02300 | | E I |
| | 020 | WOLIB | TF | FB | 1.0 | 220.1 | | | | RW22 | | AA 01800 | | E F |
| | 021 | JOVAM | TF | FB | 0.3 | 220.0 | | 3.50 | | | | AA 00700 GS 00708 | | E S |
| | 030 | RW22 | TF | FO | 0.3 | 220.0 | | 3.50 | | | | AT 00114 | | GY M |
| | 040 | | CA | FB | | 220.0 | | | | | | AA 00440 | | M |
| | 050 | OLUCE | DF | FO | | | | | | | | AA 02000 | | EY |
| | 060 | OLUCE | HM | FO | | 039.9 | | | R | | | AA 02000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| VEGHE | N364819.87 | W0761846.91 |
| JOVAM | N364240.23 | W0763438.30 |
| OLUCE | N362921.03 | W0764409.83 |
| WOLIB | N364513.00 | W0763248.58 |
| ZAKEN | N365143.67 | W0762807.37 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW22 | N364116.99 | W0763538.01 | 00069 | 45 |

CITY AND STATE
SUFFOLK, VA

ELEVATION: **70** TDZE: **69**
 AIRPORT NAME:
SUFFOLK EXECUTIVE

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 2
 5 JANUARY 2017

SUP: **4**
 AMDT: **4**
 DATED: **08/20/2015**

QUALITY
 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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|---|
| WERIV (IF/IAF) | BIKTE (FB) | 101.21 / 6.03 | 1700 | LPV: DA LNAV/VNAV: DA LNAV: RW10 CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2000 DIRECT MAGGO AND HOLD. |
| BIKTE (FAF) | XECPI/2.50 NM TO RW10 (FB) | 101.28 / 2.59 | | |
| XECPI/2.50 NM TO RW10 | RW10 (MAP) (FO) | 101.28 / 2.50 | | |
| RW10 (MAP) | 700 MSL | 101.28 | 700 | ADDITIONAL FLIGHT DATA: HOLD SW, RT, 037.01 INBOUND. CHART FAS OBST: 153 TREE 375621N/0752913W CHART 315 TOWER 375624N/0753231W. CHART R-6604, R-4006. DISTANCE TO THLD FROM 292 HAT: 0.73 NM. CHART VDP AT 1.04 NM TO RW10* *LNAV ONLY. WAAS CHANNEL # 99732 REFERENCE PATH ID: W10A CHART CIRCLING ICON LTP HAE: -30.6 M |
| 700 MSL | MAGGO (FO) | | 2000 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W WERIV, RT, 101.21 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 101.28 FAF: BIKTE DIST FAF TO MAP: 5.09 THLD: 5.09
4. MIN. ALT: WERIV 2000, BIKTE 1700, XECPI/2.50 NM TO RW10 860*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1700 GS ALT AT: BIKTE 1700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 60.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 11W 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 | 330 | 1 | 292 | 330 | 1 | 292 | 330 | 1 | 292 | 330 | 1 | 292 | | | | |
| LNAV/VNAV DA | 443 | 1 1/4 | 405 | 443 | 1 1/4 | 405 | 443 | 1 1/4 | 405 | 443 | 1 1/4 | 405 | | | | |
| LNAV MDA | 420 | 1 | 382 | 420 | 1 | 382 | 420 | 1 1/8 | 382 | 420 | 1 1/8 | 382 | | | | |
| CIRCLING | 600 | 1 | 560 | 600 | 1 | 560 | 620 | 1 1/2 | 580 | 860 | 2 3/4 | 820 | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). @ CAT D 900-2 3/4
 CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALISBURY ALTIMETER SETTING AND
 (CONTINUED ON PAGE 2)



| | | | | |
|--------------------------------------|--|------------------------------|---|--------------------------------------|
| CITY AND STATE WALLOPS ISLAND, VA | ELEVATION: 40 TDZE: 38 AIRPORT NAME: WALLOPS FLIGHT FACILITY | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1A DATED 09/18/2014 |
|--------------------------------------|--|------------------------------|---|--------------------------------------|

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 DA 60 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDA 60 FEET AND ALL CAT C AND D VISIBILITIES 1/4 SM.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SALISBURY ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11C (13F) OR ABOVE 54C (130F).

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 011/30 CW 191/30 (NOPT) | WERIV (IF/IAF) (FB) | 2000 |
| 2. | 191/30 CW 011/30 | WERIV (IF/IAF) (FO) | 2000 |



| | | | | | |
|---|--|----------|-------------------------------------|--|--------------------------|
| CITY AND STATE WALLOPS ISLAND, VA | ELEVATION: 40 AIRPORT NAME: WALLOPS FLIGHT FACILITY | TDZE: 38 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 1A |
| | | | | | DATED: 09/18/2014 |

**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 | KWAL |
| RUNWAY | RW10 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W10A |
| LTP/FTP LATITUDE | 375634.5675N |
| LTP/FTP LONGITUDE | 0752906.2695W |
| LTP/FTP ELLIPSOIDAL HEIGHT | -00306 |
| FPAP LATITUDE | 375634.0080N |
| FPAP LONGITUDE | 0752713.6360W |
| 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 | 0312 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | 6214F215 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K6 |
| LTP ORTHOMETRIC HEIGHT | +00059 |
| FPAP ORTHOMETRIC HEIGHT | +00059 |



| | | | | |
|---|---|-------------------------------------|--|--------------------------|
| CITY AND STATE WALLOPS ISLAND, VA | ELEVATION: 40 TDZE: 38 AIRPORT NAME: WALLOPS FLIGHT FACILITY | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1A |
| | | | | DATED: 09/18/2014 |

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 - KWAL

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| WERIV | 010 | WERIV | HF | FO | | 101.2 | | | R | | | AA 02000 | | EE A |
| | 010 | WERIV | IF | FB | | | | | | | | AA 02000 | | E I |
| | 020 | BIKTE | TF | FB | 1.0 | 101.2 | | | | | | AA 01700 | | E F |
| | 021 | XECPI | TF | FB | 0.3 | 101.3 | | 3.00 | | | | AA 00860 GS 00876 | | E S |
| | 030 | RW10 | TF | FO | 0.3 | 101.3 | | 3.00 | | | | AT 00079 | | GY M |
| | 040 | | CA | FB | | 101.3 | | | | | | AA 00700 | | M |
| | 050 | MAGGO | DF | FO | | | | | L | | | AA 02000 | | EY |
| | 060 | MAGGO | HM | FO | | 037.0 | | | R | | | AA 02000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| MAGGO | N375858.48 | W0754401.39 |
| BIKTE | N375636.26 | W0753532.27 |
| WERIV | N375637.81 | W0754309.75 |
| XECPI | N375635.44 | W0753215.89 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW10 | N375634.57 | W0752906.27 | 00019 | 60 |



| | | | | |
|---|---|--|--|--------------------------|
| CITY AND STATE WALLOPS ISLAND, VA | ELEVATION: 40 TDZE: 38 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: WALLOPS FLIGHT FACILITY | | RNAV (GPS) RWY 10, AMDT 2 | AMDT: 1A |
| | | | 5 JANUARY 2017 | DATED: 09/18/2014 |

**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

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-----------------------------------|----------------------------|---------------------|----------|
| MGW VORTAC | JITUK (FO) | 227.02 / 35.15 | 4000 |
| EKN VORTAC (IAF) | JITUK (NOPT) (FB) | 323.45 / 15.64 | 3900 |
| BENZO (IAF) | JITUK (NOPT) (FB) | 097.51 / 9.62 | 3900 |
| JITUK (IF/IAF) | OPEXE (FB) | 030.75 / 3.30 | 3400 |
| OPEXE | NULNE (FB) | 030.77 / 3.63 | 3200 |
| NULNE (FAF) (SEE FORM 8260-10) | ZODPA/2.30 NM TO RW03 (FB) | 030.79 / 3.08 | |

LP: RW03
LNAV: RW03

CLIMB TO 3800 DIRECT FONTZ AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NE, RT, 210.90 INBOUND.
FAS OBST: 1519 TREE 391536N/0801445W
FAS OBST: 1579 TREE 391521N/0801515W
1579 TREE 391521N/0801515W
CHART VDP AT 1.49 NM TO RW03.
WAAS CHANNEL # 77541
REFERENCE PATH ID: W03A
CHART CIRCLING ICON.
NULNE TO RW03: 3.44/50
LTP HAE: 328.2 M

MAG VAR: 8W EPOCH YEAR: 1995

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW JITUK, RT, 030.75 INBOUND, 3900 FT. IN LIEU OF PT (IAF)
3. FAC: 030.79 FAF: NULNE DIST FAF TO MAP: 5.38 THLD: 5.38
4. MIN. ALT: JITUK 3900, OPEXE 3400, NULNE 3200, ZODPA/2.30 NM TO RW03 2060
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 4700

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 | 1780 | 5500 | 592 | 1780 | 5500 | 592 | 1780 | 1 3/4 | 592 | 1780 | 1 3/4 | 592 | | | | |
| LNAV MDA | 1840 | 5500 | 652 | 1840 | 5500 | 652 | 1840 | 1 7/8 | 652 | 1840 | 1 7/8 | 652 | | | | |
| CIRCLING | 1940 | 1 | 716 | 2040 | 1 1/4 | 816 | 2320 | 3 | 1096 | 2320 | 3 | 1096 | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BENZO ON V35 SOUTHWEST BOUND.
CHART NOTE: VDP NA WHEN USING MORGANTOWN ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MORGANTOWN ALTIMETER SETTING AND (CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT B 900-2, CAT C, D 1100-3



| | | | | |
|---|--|-------------------------------------|--|---|
| CITY AND STATE CLARKSBURG, WV | ELEVATION: 1224 TDZE: 1188 AIRPORT NAME: NORTH CENTRAL WEST VIRGINIA | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 2 5 JANUARY 2017 | SUP: AMDT: 1 DATED 09/20/2012 |
|---|--|-------------------------------------|--|---|

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> |
|-----------------------|-----------------|----------------------------|-----------------|
| ZODPA/2.30 NM TO RW03 | RW03 (MAP) (FO) | 030.79 / 2.30 | |
| RW03 (MAP) | 1624 MSL | 030.79 | |
| 1624 MSL | FONTZ (FO) | | 3800 |

NOTES, (CONT.):

INCREASE ALL MDA 80 FEET AND INCREASE LP AND LNAV CATS C AND D VISIBILITY 1/8 MILE.
 CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MGW VORTAC AIRWAY RADIALS 201 CW 307 AND ON EKN VORTAC AIRWAY RADIALS 254 CW 346.



| | | | | |
|---|---|-------------------------------------|---|--------------------------|
| CITY AND STATE CLARKSBURG, WV | ELEVATION: 1224 TDZE: 1188 AIRPORT NAME: NORTH CENTRAL WEST VIRGINIA | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1 |
| | | | | DATED: 09/20/2012 |

**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 | KCKB |
| RUNWAY | RW03 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W03A |
| LTP/FTP LATITUDE | 391722.1340N |
| LTP/FTP LONGITUDE | 0801355.0565W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +03282 |
| FPAP LATITUDE | 391844.3305N |
| FPAP LONGITUDE | 0801310.5330W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00050.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.44 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0576 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 0.0 |
| <u>CRC REMAINDER</u> | 2B250577 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K6 |
| LTP ORTHOMETRIC HEIGHT | +03606 |
| FPAP ORTHOMETRIC HEIGHT | +03606 |



| | | | | |
|---|---|-------------------------------------|---|--------------------------|
| CITY AND STATE CLARKSBURG, WV | ELEVATION: 1224 TDZE: 1188 AIRPORT NAME: NORTH CENTRAL WEST VIRGINIA | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 2 5 JANUARY 2017 | SUP: |
| | | | | AMDT: 1 |
| | | | | DATED: 09/20/2012 |

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

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ARINC SUMMARY - KCKB

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| BENZO | 010 | BENZO | IF | FB | | | | | | | | | | E A |
| BENZO | 020 | JITUK | TF | FB | 1.0 | 097.5 | | | | | | AA 03900 | | EE B |
| EKN | 010 | EKN | IF | FB | | | | | | | | | | V A |
| EKN | 020 | JITUK | TF | FB | 1.0 | 323.5 | | | | | | AA 03900 | | EE B |
| MGW | 010 | MGW | IF | FB | | | | | | | | | | V |
| MGW | 020 | JITUK | TF | FO | 2.0 | 227.0 | | | | | | AA 04000 | | EY |
| MGW | 030 | JITUK | HF | FO | | 030.8 | | | R | | | AA 03900 | | EE A |
| | 010 | JITUK | IF | FB | | | | | | | | AA 03900 | | E I |
| | 011 | OPEXE | TF | FB | 1.0 | 030.8 | | | | | | AA 03400 | | E |
| | 020 | NULNE | TF | FB | 1.0 | 030.8 | | | | RW03 | | AA 03200 | | E F |
| | 021 | ZODPA | TF | FB | 0.3 | 030.8 | | 3.44 | | | | AA 02060 GS 02073 | | E S |
| | 030 | RW03 | TF | FO | 0.3 | 030.8 | | 3.44 | | | | AT 01233 | | GY M |
| | 040 | CA | FB | | | 030.8 | | | | | | AA 01624 | | M |
| | 050 | FONTZ | DF | FO | | | | | | | | AA 03800 | | EY |
| | 060 | FONTZ | HM | FO | | 210.9 | | | R | | | AA 03800 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| EKN | N385451.97 | W0800557.38 |
| MGW | N393324.10 | W0795137.42 |
| BENZO | N390556.30 | W0803224.58 |
| FONTZ | N392937.63 | W0800715.41 |
| JITUK | N390600.56 | W0802003.03 |
| NULNE | N391224.06 | W0801636.25 |
| OPEXE | N390903.29 | W0801824.59 |
| ZODPA | N391514.82 | W0801503.96 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW03 | N391722.13 | W0801355.06 | 01183 | 50 |



| | | | | |
|---|---|---|---|--------------------------|
| CITY AND STATE CLARKSBURG, WV | ELEVATION: 1224 TDZE: 1188 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 2 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: NORTH CENTRAL WEST VIRGINIA | | | AMDT: 1 |
| | | | | DATED: 09/20/2012 |

**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.

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: I-RKS 1.83 DME |
|--------------------------------|-----------------------|-----------------------|----------|---|
| OCS VOR/DME | DIGNE/I-RKS 13.67 DME | 091.63 / 10.45 | 10000 | CLIMB TO 7600 THEN CLIMBING RIGHT TURN TO 9300 DIRECT OCS VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9300. |
| DIGNE/I-RKS 13.67 DME (IF/IAF) | EPULE/I-RKS 11.66 DME | 270.22 / 2.01 (I-RKS) | 9300 | |
| EPULE/I-RKS 11.66 DME | HEBUM/I-RKS 7.73 DME | 270.22 / 3.93 (I-RKS) | 8700 | |
| | | | | ADDITIONAL FLIGHT DATA: HOLD E, RT, 270.00 INBOUND. CHART FAS OBST: 6824 NAVAID 413525N/1090055W CHART VDP AT 2.71 DME* DISTANCE VDP TO THLD 0.88 NM. *LOC ONLY. CHART CIRCLING ICON. |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD E DIGNE, RT, 270.22 INBOUND, 9300 FT. IN LIEU OF PT (IAF)
- FAC: 270.22 FAF: HEBUM/I-RKS 7.73 DME DIST FAF TO MAP: THLD: 5.90
- MIN. ALT: DIGNE 9300, EPULE 9300, HEBUM 8700, WATUM/I-RKS 4.93 DME 7800*
- DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1131
- MIN GS INCPT: 8700 GS ALT AT: HEBUM 8700 OM: - MM: - IM: -
- GS ANGLE: 3.00 TCH: 54.9
- MSA FROM: OCS VORTAC 010-100 9300, 100-010 10000

MAG VAR: 13E EPOCH YEAR: 1995

MINIMUMS

| | | | | | | | | | | | | | | | |
|--|-----------------------|------------------------|------------------------|--------|-----|----------|--------|-------|----------|--------|-------|----------|--------|-----|---------|
| TAKEOFF: <u>SEE FAA FORM 8260-15A FOR THIS AIRPORT</u> | ALTERNATE: <u>N A</u> | ILS: <u>STANDARD #</u> | LOC: <u>STANDARD @</u> | | | | | | | | | | | | |
| CATEGORY <u>====></u> | 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 | 6965 | 1/2 | 200 | 6965 | 1/2 | 200 | 6965 | 1/2 | 200 | 6965 | 1/2 | 200 | | | |
| S-LOC 27 | 7100 | 1/2 | 335 | 7100 | 1/2 | 335 | 7100 | 1/2 | 335 | 7100 | 1/2 | 335 | | | |
| CIRCLING | 7140 | 1 | 375 | 7220 | 1 | 455 | 7220 | 1 1/2 | 455 | 7540 | 2 1/2 | 775 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART PROFILE NOTE: USE I-RKS DME WHEN ON THE LOCALIZER COURSE.
*LOC ONLY
CHART NOTE: DME REQUIRED.

CAT D 800-2 1/2
@ CAT D 800-2 1/2



| | | | | |
|---|--|--------------------------------------|--|---|
| CITY AND STATE ROCK SPRINGS, WY | ELEVATION: 6765 TDZE: 6765 AIRPORT NAME: ROCK SPRINGS-SWEETWATER COUNTY | FACILITY IDENTIFIER: I-RKS | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 2, 01/05/2017 | SUP: ILS OR LOC/DME RWY 27 AMDT: 1A DATED 01/13/2011 |
|---|--|--------------------------------------|--|---|

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | LPV: DA LNAV/VNAV: DA LNAV: RW27 |
|-----------------------------|--------------------------------------|---------------------|----------|--|
| OCS VOR/DME | DIGNE (TF) (FO) (RNP 2.00) | 091.63 / 10.45 | 10000 | CLIMB TO 9800 DIRECT REGVE AND HOLD. |
| ARUTE (IAF) | DIGNE (NOPT) (TF) (FB) (RNP 1.00) | 210.13 / 6.89 | 9300 | |
| CEBAL (IAF) | DIGNE (NOPT) (TF) (FB) (RNP 1.00) | 334.41 / 6.97 | 9300 | |
| DIGNE (IF/IAF) | EPULE (TF) (FB) (RNP 1.00) | 270.39 / 2.01 | 9300 | |
| EPULE (SEE FORM 8260-10) | HEBUM (TF) (FB) (RNP 1.00) | 270.36 / 3.93 | 8700 | |

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 090.03 INBOUND.
CHART FAS OBST: 6824 NAVAID 413525N/1090055W
DISTANCE TO THLD FROM 200 HAT: 0.46 NM.
CHART VDP AT 0.88 NM TO RW27*
*LNAV ONLY.
WAAS CHANNEL # 49216
REFERENCE PATH ID: W27A
CHART CIRCLING ICON.
LTP HAE: 2047.8 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD E DIGNE, RT, 270.39 INBOUND, 9300 FT. IN LIEU OF PT (IAF)
3. FAC: 270.30 FAF: HEBUM DIST FAF TO MAP: 5.90 THLD: 5.90
4. MIN. ALT: DIGNE 9300, EPULE 9300, HEBUM 8700, WATUM/3.10 NM TO RW27 7800*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 8700 GS ALT AT: HEBUM 8700 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 54.9 34:1 IS CLEAR
8. MSA FROM: RW27 10000

MAG VAR: 13E EPOCH YEAR: 1995

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 | 6965 | 1/2 | 200 | 6965 | 1/2 | 200 | 6965 | 1/2 | 200 | 6965 | 1/2 | 200 | | | |
| LNAV/VNAV DA | 7036 | 1/2 | 271 | 7036 | 1/2 | 271 | 7036 | 1/2 | 271 | 7036 | 1/2 | 271 | | | |
| LNAV MDA | 7100 | 1/2 | 335 | 7100 | 1/2 | 335 | 7100 | 1/2 | 335 | 7100 | 1/2 | 335 | | | |
| CIRCLING | 7140 | 1 | 375 | 7220 | 1 | 455 | 7220 | 1 1/2 | 455 | 7540 | 2 1/2 | 775 | | | |

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OCS VOR/DME ON V235 SOUTHWEST BOUND, V187 NORTH AND SOUTHBOUND.
(CONTINUED ON PAGE 2)

@ CAT D 800-2 1/2



| | | | | |
|------------------------------------|---|------------------------------|--|-------------------------------------|
| CITY AND STATE ROCK SPRINGS, WY | ELEVATION: 6765 TDZE: 6765 AIRPORT NAME: ROCK SPRINGS-SWEETWATER COUNTY | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A 5 JANUARY 2017 | SUP: AMDT: 1 DATED 04/08/2010 |
|------------------------------------|---|------------------------------|--|-------------------------------------|

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.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-----------------------|--|----------------------------|-----------------|
| HEBUM (FAF) | WATUM/3.10 NM TO RW27 (TF) (FB) (RNP 0.30) | 270.30 / 2.80 | |
| WATUM/3.10 NM TO RW27 | RW27 (MAP) (TF) (FO) (RNP 0.30) | 270.30 / 3.10 | |
| RW27 (MAP) | 6965 MSL | 270.30 | |
| 6965 MSL | REGVE (DF) (FO) (RNP 1.00) | | 9800 |

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -27C (-16F) OR ABOVE +44C (+111F)



| | | | | | |
|---|---|------------|-------------------------------------|---|--------------------------|
| CITY AND STATE ROCK SPRINGS, WY | ELEVATION: 6765 AIRPORT NAME: ROCK SPRINGS-SWEETWATER COUNTY | TDZE: 6765 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A 5 JANUARY 2017 | SUP: |
| | | | | | AMDT: 1 |
| | | | | | DATED: 04/08/2010 |

**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 | KRKS |
| RUNWAY | RW27 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W27A |
| LTP/FTP LATITUDE | 413529.0560N |
| LTP/FTP LONGITUDE | 1090247.9285W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +20478 |
| FPAP LATITUDE | 413551.6290N |
| FPAP LONGITUDE | 1090456.0135W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00054.9 |
| 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> | 5001018D |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K1 |
| LTP ORTHOMETRIC HEIGHT | +20618 |
| FPAP ORTHOMETRIC HEIGHT | +20618 |



| | | | | | |
|------------------------------------|---|------------|------------------------------|--|-------------------|
| CITY AND STATE ROCK SPRINGS, WY | ELEVATION: 6765 | TDZE: 6765 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1A 5 JANUARY 2017 | SUP: |
| | AIRPORT NAME: ROCK SPRINGS-SWEETWATER COUNTY | | | | AMDT: 1 |
| | | | | | DATED: 04/08/2010 |