

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 17-16

June 16, 2017

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

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

**The following are corrected copies of procedures previously published in TL 17-15 on June
2, 2017.**

Columbia, CA, Columbia, FICHU TWO, Graphic DP
Indianapolis, IN, Indy South Greenwood, RNAV (GPS) RWY 1, Amdt 2
Ontonagon, MI, Ontonagon County - Shuster Field, RNAV (GPS) RWY 35, Orig
Columbus, MS, Columbus-Lowndes County, RNAV (GPS) RWY 18, Amdt 1
Columbus, MS, Columbus-Lowndes County, RNAV (GPS) RWY 36, Amdt 1
Columbus, MS, Columbus-Lowndes County, VOR-A, Amdt 14
Nephi, UT, Nephi Muni, NEPHI TWO, Graphic DP

**The following procedures, previously published in TL 17-15, on June 2, 2017 have been
rescinded in their entirety.**

Orlando, FL, Orlando Sanford Intl, ILS OR LOC RWY 27R, Amdt 4
Orlando, FL, Orlando Sanford Intl, RNAV (GPS) RWY 27R, Amdt 4

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

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>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
FICHU	TWO	FICHU2.HABXU	ONE	12/30/1999	17 AUGUST 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>	THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.
	☒	☐	☐	☐	☒	

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17: CLIMB ON HEADING 174.17 TO 2621, THEN CLIMB DIRECT TO FICHU, THEN ON TRACK 174.15 TO GONAQ, THEN ON TRACK 249.79 TO HABXU. CONTINUE CLIMB IN HOLD IN HABXU HOLDING PATTERN (HOLD W, RT, 069.79 INBOUND) TO CROSS HABXU AT OR ABOVE MEA FOR ROUTE OF FLIGHT.

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>
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PROCEDURAL DATA NOTES:

NOTE: GPS REQUIRED.
NOTE: RNAV 1.

TAKEOFF MINIMUMS:

RWY 35: NA-ATC.
RWY 17: 300-1 OR STANDARD WITH A MINIMUM CLIMB GRADIENT OF 766 FT PER NM TO 2300 FT.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 17, BUSH 31 FT FROM DER, 196 FT RIGHT OF CENTERLINE, 2083 FT MSL. TREE 148 FT FROM DER, 387 FT RIGHT OF CENTERLINE, 2108 FT MSL. TREES BEGINNING 180 FT FROM DER, 287 FT LEFT OF CENTERLINE, UP TO 2126 FT MSL. TREE 262 FT FROM DER, 527 FT RIGHT OF CENTERLINE, 2163 FT MSL. TREES BEGINNING 354 FT FROM DER, 240 FT LEFT OF CENTERLINE, UP TO 2127 FT MSL. TREE, RD (N), POLE, GRD, BUSH BEGINNING 414 FT FROM DER, 46 FT RIGHT OF CENTERLINE, UP TO 2188 FT MSL. TREE 456 FT FROM DER, 325 FT LEFT OF CENTERLINE, 2130 FT MSL. TREES BEGINNING 492 FT FROM DER, 109 FT LEFT OF CENTERLINE, UP TO 2133 FT MSL. TREES BEGINNING 725 FT FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 2171 FT MSL. TREES BEGINNING 1260 FT FROM DER, 56 FT LEFT OF CENTERLINE, UP TO 2181 FT MSL. TREE 1527 FT FROM DER, 893 FT RIGHT OF CENTERLINE, 2205 FT MSL. TREE 1619 FT FROM DER, 860 FT RIGHT OF CENTERLINE, 2220 FT MSL. TREES BEGINNING 1664 FT FROM DER, 896 FT RIGHT OF CENTERLINE, UP TO 2238 FT MSL. TREE 2152 FT FROM DER, 982 FT LEFT OF CENTERLINE, 2212 FT MSL. TREE 2195 FT FROM DER, 988 FT LEFT OF CENTERLINE, 2262 FT MSL. TREE 2195 FT FROM DER, 987 FT LEFT OF CENTERLINE, 2273 FT MSL. TREE, TOWER BEGINNING 5842 FT FROM DER, 410 FT LEFT OF CENTERLINE, UP TO 2339 FT MSL. TREE 5936 FT FROM DER, 557 FT LEFT OF CENTERLINE, 2239 FT MSL.

CONTROLLING OBSTACLES:

RWY 17: 2273 FT MSL TREE 380103.48N/1202444.86W (CEILING/VIS)

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 17: 10771 FT MSL AAO 375315.00N/1193127.00W

LOST COMMUNICATIONS PROCEDURES:



**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>
FICHU	TWO	FICHU2.HABXU	ONE	12/30/1999	17 AUGUST 2017

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KO22 16E EPOCH YR: 1985
CHART: HOLDING PATTERN AT HABXU, HOLD WEST, RT, 069.79 INBOUND, 7 DME LEGS.
CHART: V459
DME/DME ASSESSMENT: NOT CONDUCTED.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
COLUMBIA	COLUMBIA	CA

COMMUNICATIONS:

CHART: NORCAL DEP CON (N) 123.7 (W) 125.1
CHART: OAKLAND CENTER (E) 126.85
CHART: RANCHO MURIETA RADIO (RUI)



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

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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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
FICHU	TWO	FICHU2.HABXU	ONE	12/30/1999	17 AUGUST 2017

FIXES AND/OR NAVAIDS:

OXJEF, LIN VOR/DME 

REMARKS:

FLIGHT INSPECTED BY:

THOMAS E MOLOKIE

Digitally signed by
DONALD H LANIER
Jun 07, 2017

OFFICE SYMBOL:

FICO

DATE:

05/05/2017

DEVELOPED BY:

ROBERT GRIM

ROBERT E GRIM II *Digitally signed by ROBERT E GRIM II*
Date: 2017.01.11 13:06:30 -06'00'

OFFICE SYMBOL:

AJV-5431

DATE:

12/29/2016

APPROVED BY:

PATRICK MULQUEEN

Digitally signed by
DONALD H LANIER
Jun 07, 2017

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☒	☒	☒	☒	☐	☒

OTHER:

ARPT MGR, NOR CAL APP CON, ZOA

CHANGES - REASONS:

1. DELETED ALL REFERENCES TO V-244. - V-244 NO LONGER ROUTES THROUGH HABXU DUE TO ECA VORTAC DECOMMISSIONING.
2. UPDATED TAKEOFF OBSTACLE NOTES. - NEW SURVEY.
3. TAKEOFF MINIMUMS CHANGED FROM 300-1 WITH MINIMUM CLIMB GRADIENT OF 300 FT PER NM TO 3000 TO 300-1 OR STANDARD WITH MINIMUM CLIMB GRADIENT OF 766 FT PER NM TO 2300.
- NEW OBSTACLES REQUIRE HIGHER MINIMUM CLIMB GRADIENT.
4. UPDATED COMMUNICATIONS BLOCK.
5. ADDED FIX OXJEF TO FIXES AND/OR NAVAIDS BLOCK.
6. UPDATED DP ROUTE DESCRIPTION TO REFLECT RNAV ROUTING. - PER 8260.46F.

06/06/17: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/02/17.

1. CHANGED LIN VORTAC TO LIN VOR/DME (FIXES AND/OR NAVAIDS).

QUALITY
34
CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
FICHU		TWO		FICHU2.HABXU		ONE		12/30/1999	17 AUGUST 2017
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW17 (AER)*	380212.03N/1202441.84W	N	-	-	-	-			*DISP THLD (598 FT)
2621 MSL	-	-	-	VA	190.17	-			CG 766 FT/NM TO 2300
FICHU	375736.97N/1202544.10W	Y	FB	DF	-	-			
GONAQ	375240.95N/1202650.97W	Y	FB	TF	190.15	5.01			
HABXU	375204.60N/1203706.81W	Y	FO	TF	265.79	8.15			
HABXU	375204.60N/1203706.81W	Y	FO	HA	085.79	-	AT/ABOVE 7000		



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			LPV: DA LNAV/VNAV: DA LNAV: RW01									
WAGSE (IAF)			GAVYE (NOPT) (TF) (FB) (RNP 1.00)			290.27 / 14.40			3100			CLIMB TO 3000 DIRECT JINIC AND HOLD.									
MOUTH (IAF)			GAVYE (NOPT) (TF) (FB) (RNP 1.00)			057.46 / 8.11			3100												
GAVYE (IF/IAF)			STUNS (TF) (FB) (RNP 1.00)			009.64 / 4.86			2600												
STUNS			CESUT (TF) (FB) (RNP 1.00)			009.64 / 2.00			2200												
CESUT (FAF)			RW01 (MAP) (TF) (FO) (RNP 0.30)			009.64 / 4.21						ADDITIONAL FLIGHT DATA: HOLD N, RT, 189.67 INBOUND. FAS OBST: 1020 AAO 393354N/0860512W DISTANCE TO THLD FROM 330 HAT: 0.91 NM. CHART VDP AT 1.31 NM TO RW01* *LNAV ONLY. WAAS CHANNEL # 97640 REFERENCE PATH ID: W01A CHART WAAS SYMBOL CHART CIRCLING ICON. CHART: R3401 A/B LTP HAE: 217 M									
(SEE FORM 8260-10)																					
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. HOLD S GAVYE, LT, 009.64 INBOUND, 3100 FT. IN LIEU OF PT (IAF)																					
3. FAC: 009.64 FAF: CESUT DIST FAF TO MAP: 4.21 THLD: 4.21																					
4. MIN. ALT: GAVYE 3100, STUNS 2600, CESUT 2200																					
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																					
6. MIN GS INCPT: 2200 GS ALT AT: CESUT 2200 OM: _____ MM: _____ IM: _____																					
7. GS ANGLE: 3.00 TCH: 39.0 34:1 IS NOT CLEAR																					
8. MSA FROM: RW01 3100																					
MAG VAR: 2W 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	1167	1 1/8	345	1167	1 1/8	345	1167	1 1/8	345	1167	1 1/8	345									
LNAV/VNAV DA	1152	1 1/8	330	1152	1 1/8	330	1152	1 1/8	330	1152	1 1/8	330									
LNAV MDA	1280	1	458	1280	1	458	1280	1 3/8	458	1280	1 3/8	458									
CIRCLING	1320	1	498	1380	1	558	1380	1 1/2	558	1900	3	1078									
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ CAT D 1100-3 CHART NOTE: RWY 1 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)																					
CITY AND STATE INDIANAPOLIS, IN				ELEVATION: 822 TDZE: 822 AIRPORT NAME: INDY SOUTH GREENWOOD				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 2 17 AUGUST 2017						SUP: AMDT: 1 DATED 07/05/2007					

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW01 (MAP)	1152 MSL (CA)	009.64	
1152 MSL	JINIC (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WAGSE ON V128 SOUTHEAST BOUND AND ARRIVALS AT MOUTH ON V53 SOUTHEAST BOUND, AND ON V221 SOUTHWEST BOUND.

QUALITY
4
CHECKED

CITY AND STATE
INDIANAPOLIS, IN

ELEVATION: 822 TDZE: 822
AIRPORT NAME:
INDY SOUTH GREENWOOD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 1, AMDT 2
17 AUGUST 2017

SUP:
AMDT: 1
DATED: 07/05/2007

**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	KHFY
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	393715.4000N
LTP/FTP LONGITUDE	0860521.0655W
LTP/FTP ELLIPSOIDAL HEIGHT	+02170
FPAP LATITUDE	393843.7810N
FPAP LONGITUDE	0860505.7180W
THRESHOLD CROSSING HEIGHT (TCH)	00039.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 B07C5C7B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02503
FPAP ORTHOMETRIC HEIGHT	+02503

QUALITY
4
CHECKED

CITY AND STATE INDIANAPOLIS, IN	ELEVATION: 822 AIRPORT NAME: INDY SOUTH GREENWOOD	TDZE: 822 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1
				DATED: 07/05/2007

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		LPV: DA LNAV/VNAV: DA LNAV: RW35									
PELTZ		BINGR (TF) (FO) (RNP 2.00)		207.13 / 15.88		3700		CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3700 DIRECT PELTZ AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3700.									
LAAUU (IAF)		BINGR (NOPT) (TF) (FB) (RNP 1.00)		002.87 / 23.80		3700 ←											
COTMO (IAF)		BINGR (NOPT) (TF) (FB) (RNP 1.00)		052.86 / 16.41		3700 ←		ADDITIONAL FLIGHT DATA: HOLD NE, RT, 243.57 INBOUND. CHART FAS OBST: 857 TREE 464838N/0892024W CHART HOUGHTON COUNTY MEMORIAL ASOS. CHART ONTONAGON AND BIG BEAR MOA. CHART R-4305. DISTANCE TO THLD FROM 487 HAT: 1.20 NM. WAAS CHANNEL # 40340 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 171.4 M									
BINGR (IF/IAF)		RUUGS (TF) (FB) (RNP 1.00)		346.32 / 5.00		2600											
RUUGS (FAF)		KAGRE/2.30 NM TO RW35 (TF) (FB) (RNP 0.30)		346.30 / 2.80													
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A FORM ORIGINALLY PUBLISHED IN TL 17-15																	
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																	
2. HOLD S BINGR, RT, 346.32 INBOUND, 3700 FT. IN LIEU OF PT (IAF)																	
3. FAC: 346.30 FAF: RUUGS DIST FAF TO MAP: 5.10 THLD: 5.10																	
4. MIN. ALT: BINGR 3700, RUUGS 2600, KAGRE/2.30 NM TO RW35 1560* ←																	
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:																	
6. MIN GS INCPT: 2600 GS ALT AT: RUUGS 2600 OM: MM: IM:																	
7. GS ANGLE: 3.50 TCH: 40.0 34:1 IS NOT CLEAR																	
8. MSA FROM: RW35 3200																	
MAG VAR: 3W EPOCH YEAR: 2010																	
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 1152 1 1/2 487 1152 1 1/2 487 1152 1 1/2 487 NA																	
LNAV/VNAV DA 1301 1 7/8 636 1301 1 7/8 636 1301 1 7/8 636 NA																	
LNAV MDA 1280 1 615 1280 1 615 1280 1 3/4 615 NA																	
CIRCLING 1320 1 655 1320 1 655 1420 2 1/4 755 NA																	
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: RWY 35 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 PELTZ ON V148 NORTHEAST BOUND. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 665 TDZE: 665		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 17 AUGUST 2017						SUP:					
ONTONAGON, MI		AIRPORT NAME: ONTONAGON COUNTY - SCHUSTER FIELD										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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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
KAGRE/2.30 NM TO RW35	RW35 (MAP) (TF) (FO) (RNP 0.30)	346.30 / 2.30	
RW35 (MAP)	1300 MSL (CA)	346.30	1300
1300 MSL	PELTZ (DF) (FO) (RNP 1.00)		3700

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COTMO ON V316 WESTBOUND.

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

*LNAV ONLY

CHART NOTE: USE HANCOCK ALTIMETER SETTING.

QUALITY
21
CHECKED

CITY AND STATE
ONTONAGON, MI

ELEVATION: 665 TDZE: 665
AIRPORT NAME:
ONTONAGON COUNTY - SCHUSTER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 35, ORIG
17 AUGUST 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	KOGM
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	465027.1380N
LTP/FTP LONGITUDE	0892154.2775W
LTP/FTP ELLIPSOIDAL HEIGHT	+01714
FPAP LATITUDE	465152.4280N
FPAP LONGITUDE	0892231.6560W
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	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 4D02246C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02028
FPAP ORTHOMETRIC HEIGHT	+02028

QUALITY
21
CHECKED

CITY AND STATE ONTONAGON, MI	ELEVATION: 665 AIRPORT NAME: ONTONAGON COUNTY - SCHUSTER FIELD	TDZE: 665 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 17 AUGUST 2017	SUP:
				AMDT: NONE
				DATED:

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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		LPV: DA LNAV/VNAV: DA LNAV: RW18 CLIMB TO 2500 DIRECT CENOK AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 001.87 INBOUND. CHART FAS OBST: 657 TOWER 333045N/0882335W CHART KCBM DISTANCE TO THLD FROM 281 HAT: 0.76 NM. WAAS CHANNEL # 50540 REFERENCE PATH ID: W18A CHART CIRCLING ICON. CHART: MERIDIAN EAST 1 MOA CHART: COLUMBUS 1 MOA LTP HAE: 29 M											
WODUD (IF/IAF)				TUDFU (TF) (FB) (RNP 1.00)				181.87 / 11.92				2000													
TUDFU (FAF)				SISYO/2.70 NM TO RW18 (TF) (FB) (RNP 0.30)				181.87 / 2.86																	
SISYO/2.70 NM TO RW18				RW18 (MAP) (TF) (FO) (RNP 0.30)				181.87 / 2.70																	
RW18 (MAP)				469 MSL (CA)				181.87				2500													
469 MSL				CENOK (DF) (FO) (RNP 1.00)																					
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N WODUD, RT, 181.87 INBOUND, 2500 FT. IN LIEU OF PT (IAF) 3. FAC: 181.87 FAF: TUDFU DIST FAF TO MAP: 5.56 THLD: 5.56 4. MIN. ALT: WODUD 2500, TUDFU 2000, SISYO/2.70 NM TO RW18 1080* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: TUDFU 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 3W 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	469	1	281	469	1	281	469	1	281	469	1	281													
LNAV/VNAV DA	1107	4	919	1107	4	919	1107	4	919	1107	4	919													
LNAV MDA	1000	1	812	1000	1 1/4	812	1000	2 1/2	812	1000	2 1/2	812													
CIRCLING	1000	1 1/4	812	1000	1 1/4	812	1040	2 1/2	852	1040	2 3/4	852													
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART NOTE: USE COLUMBUS AFB ALTIMETER SETTING; WHEN NOT RECEIVED, USE GOLDEN TRIANGLE RGNL ALTIMETER SETTING AND INCREASE ALL DA 5 FEET AND ALL MDA 20 FEET. CHART NOTE: BARO-VNAV NA.																									
CITY AND STATE				ELEVATION: 188 TDZE: 188				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
COLUMBUS, MS				AIRPORT NAME:								RNAV (GPS) RWY 18, AMDT 1				AMDT: ORIG-B									
				COLUMBUS-LOWNDES COUNTY								17 AUGUST 2017				DATED 06/27/2013									

QUALITY
 27
 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.

TAA

	FROM	TO	ALT
1.	092/30 CW 272/30 (NOPT)	092/15 CW 272/15	3400
2.	092/15 CW 272/15	WODUD (IF/IAF) (FB)	2500
3.	272/30 CW 092/30	272/15 CW 092/15	3400
4.	272/15 CW 092/15	WODUD (IF/IAF) (FO)	2500

QUALITY
18
CHECKED

CITY AND STATE COLUMBUS, MS	ELEVATION: 188 AIRPORT NAME: COLUMBUS-LOWNDES COUNTY	TDZE: 188	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 17 AUGUST 2017	SUP:
					AMDT: ORIG-B
					DATED: 06/27/2013

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KUBS
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	332817.4840N
LTP/FTP LONGITUDE	0882251.2365W
LTP/FTP ELLIPSOIDAL HEIGHT	+00290
FPAP LATITUDE	332648.2400N
FPAP LONGITUDE	0882249.1400W
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

EF233325

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00573
FPAP ORTHOMETRIC HEIGHT	+00573

QUALITY
18
CHECKED

CITY AND STATE

COLUMBUS, MS

ELEVATION: 188

TDZE: 188

AIRPORT NAME:

COLUMBUS-LOWNDES COUNTY

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG-B

DATED: 06/27/2013

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.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW36									
CENOK (IF/IAF)		YUBUY (TF) (FB) (RNP 1.00)		001.87 / 7.00		2000		CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2500 DIRECT CENOK AND HOLD.									
YUBUY (FAF)		ZAPKA/1.50 NM TO RW36 (TF) (FB) (RNP 0.30)		001.87 / 3.84													
ZAPKA/1.50 NM TO RW36		RW36 (MAP) (TF) (FO) (RNP 0.30)		001.87 / 1.50													
RW36 (MAP)		600 MSL (CA)		001.87		600											
600 MSL		CENOK (DF) (FO) (RNP 1.00)				2500		ADDITIONAL FLIGHT DATA: CHART KCBM DISTANCE TO THLD FROM 337 HAT: 0.86 NM. WAAS CHANNEL # 61340 REFERENCE PATH ID: W36A CHART CIRCLING ICON. CHART: MERIDIAN 1 EAST MOA LTP HAE: 27.9 M									
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. HOLD S CENOK, RT, 001.87 INBOUND, 2500 FT. IN LIEU OF PT (IAF)																	
3. FAC: 001.87 FAF: YUBUY DIST FAF TO MAP: 5.34 THLD: 5.34																	
4. MIN. ALT: CENOK 2500, YUBUY 2000, ZAPKA/1.50 NM TO RW36 720*																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: 2000 GS ALT AT: YUBUY 2000 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.10 TCH: 58.4 34:1 IS NOT CLEAR																	
8. MSA FROM: _____																	
MAG VAR: 3W 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	525	1	338	525	1	338	525	1	338	525	1	338					
LNAV/VNAV DA	524	1	337	524	1	337	524	1	337	524	1	337					
LNAV MDA	600	1	413	600	1	413	600	1 1/8	413	600	1 1/8	413					
CIRCLING																	
	760	1	572	780	1	592	1040	2 1/2	852	1040	2 3/4	852					
NOTES: CHART NOTE: 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. *LNAV ONLY (CONTINUED ON PAGE 2)																	
CITY AND STATE COLUMBUS, MS		ELEVATION: 188 TDZE: 187 AIRPORT NAME: COLUMBUS-LOWNDES COUNTY		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1 17 AUGUST 2017						SUP: AMDT: ORIG-A DATED 06/27/2013					

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

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

NOTES, (CONT.):**CHART NOTE: USE COLUMBUS AFB ALTIMETER SETTING; WHEN NOT RECEIVED, USE GOLDEN TRIANGLE RGNL ALTIMETER****SETTING AND INCREASE ALL DA 5 FEET AND ALL MDA 20 FEET, INCREASE LPV AND LNAV/VNAV ALL CATS****VISIBILITIES TO 1 1/8 SM.****CHART NOTE: BARO-VNAV NA.****TAA**

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	272/30 CW 092/30 (NOPT)	CENOK (IF/IAF) (FB)	2500
2.	092/30 CW 272/30	CENOK (IF/IAF) (FO)	2500

QUALITY
18
CHECKED

CITY AND STATE

COLUMBUS, MS

ELEVATION: 188**TDZE: 187**

AIRPORT NAME:

COLUMBUS-LOWNDES COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, AMDT 1

17 AUGUST 2017

SUP:

AMDT: **ORIG-A**DATED: **06/27/2013**

**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	KUBS
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	332732.9455N
LTP/FTP LONGITUDE	0882250.1930W
LTP/FTP ELLIPSOIDAL HEIGHT	+00279
FPAP LATITUDE	332902.1940N
FPAP LONGITUDE	0882252.2940W
THRESHOLD CROSSING HEIGHT (TCH)	00058.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1376
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 598D3939

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00563
FPAP ORTHOMETRIC HEIGHT	+00563

QUALITY
18
CHECKED

CITY AND STATE COLUMBUS, MS	ELEVATION: 188 AIRPORT NAME: COLUMBUS-LOWNDES COUNTY	TDZE: 187 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				DATED: 06/27/2013

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: 6.70 NM AFTER IGB VORTAC OR AT MACXII/IGB 6.70 DME FIX									
										CLIMBING RIGHT TURN TO 2000 DIRECT IGB VORTAC AND HOLD.									
										ADDITIONAL FLIGHT DATA: HOLD W, RT, 096.22 INBOUND. FAS OBST: 459 AAO 332806N/0882951W CHART KCBM CHART CIRCLING ICON. FAC CROSSES MID-POINT OF RWY 18-36.									
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.																			
1. PT <u>L</u> SIDE OF COURSE <u>276.22</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>IGB VORTAC</u> (IAF)																			
2.																			
3. FAC <u>096.22</u> FAF <u>IGB VORTAC</u> DIST FAF TO MAP <u>6.70</u> THLD																			
4. MIN. ALT <u>IGB VORTAC 2000</u>																			
8. MSA FROM: <u>IGB VORTAC 3400</u>										MAG VAR: 4E					EPOCH YEAR: 1965				
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		780	1	592	780	1	592	1040	2 1/2	852	1040	2 3/4	852						
NOTES:																			
CHART NOTE: USE COLUMBUS AFB ALTIMETER SETTING; WHEN NOT RECEIVED, USE GOLDEN TRIANGLE RGNL ALTIMETER SETTING AND INCREASE ALL MDA 20 FEET.																			
CITY AND STATE COLUMBUS, MS		ELEVATION: 188 AIRPORT NAME: COLUMBUS-LOWNDES COUNTY			TDZE:			FACILITY IDENTIFIER: IGB			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 14 17 AUGUST 2017					SUP			
															AMDT 13A				
															DATE 06/27/2013				

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

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>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
NEPHI	TWO	U142.DTA ←	ONE	10/20/2011	17 AUGUST 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>	
	☒	☐	☐	☐	☒	THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.

DP ROUTE DESCRIPTION:

TAKEOFF RUNWAY 17: CLIMB HEADING 167.85 TO 5540, THEN DIRECT ACAGO, THENCE...

TAKEOFF RUNWAY 35: CLIMB HEADING 347.85 TO 5500, THEN DIRECT ELETE, THENCE...

... ON DEPICTED ROUTE TO DTA VORTAC. CLIMB TO 11000 OR ATC ASSIGNED ALTITUDE.

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>
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PROCEDURAL DATA NOTES:

NOTE: GPS REQUIRED.

NOTE: RNAV 1

TAKEOFF MINIMUMS:

RWY 17, STANDARD.

RWY 35, STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 9400.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 17: BUSH 11 FEET FROM DER, 101 FEET LEFT OF CENTERLINE, 4 FEET AGL/5024 FEET MSL. BUSH 92 FEET FROM DER, 509 FEET LEFT OF CENTERLINE, 5 FEET AGL/5025 FEET MSL.

POLE 1021 FEET FROM DER, 498 FEET RIGHT OF CENTERLINE, 35 FEET AGL/5053 FEET MSL. POLE 1223 FEET FROM DER, 202 FEET RIGHT OF CENTERLINE, 35 FEET AGL/5058 FEET MSL. TREE 2250

FEET FROM DER, 1009 FEET RIGHT OF CENTERLINE, 85 FEET AGL/5099 FEET MSL.

NOTE: RWY 35: BUSH 68 FEET FROM DER, 499 FEET RIGHT OF CENTERLINE, 5 FEET AGL/4990 FEET MSL.

CONTROLLING OBSTACLES:

RWY 35: 8306 FEET MSL AAO 395554.66N/1120612.63W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 17/35: 12128 FEET MSL AAO 394912.40N/1114536.20W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG/VAR: KU14 12E EPOCH YR: 2010

DME/DME ASSESSMENT: NOT CONDUCTED.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
NEPHI MUNI	NEPHI	UT

COMMUNICATIONS:

SLC DEP CON, ZLC

FIXES AND/OR NAVAIDS:

QUALITY
4
CHECKED

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

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.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
NEPHI	TWO	U142.DTA ←	ONE	10/20/2011	17 AUGUST 2017

REMARKS:
ABBREVIATED AMENDMENT



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

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>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
NEPHI	TWO	U142.DTA ←	ONE	10/20/2011	17 AUGUST 2017

FLIGHT INSPECTED BY:

Digitally signed by
DONALD H LANIER
Jun 07, 2017

OFFICE SYMBOL:

FICO

DATE:

05/03/2017

DEVELOPED BY:

KELLY D. DEAN

KELLY D DEAN

Digitally signed by KELLY D DEAN
Date: 2017.03.08 14:46:07 -06'00'

OFFICE SYMBOL:

AJV-5431

DATE:

03/08/2017

APPROVED BY:

Digitally signed by

PATRICK MULQUEEN, MANAGER

DONALD H LANIER

Jun 07, 2017

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

☐ ☒ ☒ ☒ ☐ ☒

OTHER:

ARPT MGR, SLC TRACON, ZLC, WESTERN FPT

CHANGES - REASONS:

I. CHANGED DP ROUTE DESCRIPTION "CLIMB TO MEA OR ATC ASSIGNED ALTITUDE BEFORE PROCEEDING ON COURSE." TO "CLIMB TO 11000 OR ATC ASSIGNED ALTITUDE." - ATC REQUEST.

04/20/2017 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/08/2017
UPDATED DTA VORTAC COORDINATES AND TC ON THE 8260.15C.
CHANGED U141.DAT DP COUMPUTER CODE TO U142.DAT.

06/07/2017 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/09/2017
CHANGED U142.DAT DP COUMPUTER CODE TO U142.DTA.

QUALITY
4
CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
NEPHI		TWO		U142.DTA		ONE		10/20/2011		17 AUGUST 2017	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RWY 17(AER)	394442.77N-1115212.29W	N	-	-	-	-					
5540 MSL		-	-	VA	179.85	-					
ACAGO	393716.34N-1115210.78W	Y	FB	DF	-	-					
JESTO	393353.89N-1115319.27W	Y	FB	TF	194.67	3.48					
PILTE	392346.09N-1115927.52W	Y	FB	TF	205.18	11.18					
CUNDO	391933.29N-1120655.53W	Y	FB	TF	234.03	7.16					
DTA VORTAC	391807.96N-1123020.00W	Y	FB	TF	265.65	18.22					
RWY 35 (AER)	394340.53N-1115212.08W	N	-	-	-	-			CG 260 FT PER NM TO 9400		
5500 MSL		-	-	VA	359.85	-					
ELETE	394939.31 N-1115213.30W	Y	FB	DF	-	-					
CIRNA	395951.79N-1115215.38W	Y	FB	TF	359.85	10.20					
FRNZY	395814.82N-1120708. 78W	Y	FB	TF	262.05	11.56					
DTA VORTAC	391807.96N-1123020.00W	Y	FB	TF	204.20	43.90					

QUALITY
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[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31141](#); Amdt. No. [3753](#)]

**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 [June 16, 2017](#)

A handwritten signature in black ink, appearing to read "John S. Duncan", with a stylized flourish at the end.

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 20 July 2017

Bridgeport, CT, Igor I Sikorsky Memorial, RNAV (GPS) RWY 29, Amdt 1A
 Lakeland, FL, Lakeland Linder Rgnl, ILS OR LOC RWY 9, Orig-B
 Lakeland, FL, Lakeland Linder Rgnl, RNAV (GPS) RWY 5, Orig-E
 Lakeland, FL, Lakeland Linder Rgnl, RNAV (GPS) RWY 9, Amdt 2C
 Lakeland, FL, Lakeland Linder Rgnl, RNAV (GPS) RWY 23, Orig-C
 Lakeland, FL, Lakeland Linder Rgnl, RNAV (GPS) RWY 27, Amdt 2B
 Lakeland, FL, Lakeland Linder Rgnl, Takeoff Minimums and Obstacle DP, Amdt 1A
 Lakeland, FL, Lakeland Linder Rgnl, VOR RWY 9, Amdt 4D
 Lakeland, FL, Lakeland Linder Rgnl, VOR RWY 27, Amdt 7G

Effective 17 August 2017

Huntsville, AL, Huntsville Executive Airport Tom Sharp Jr Fld, ILS OR LOC RWY 18, Amdt 1B
 Chico, CA, Chico Muni, RNAV (GPS) RWY 31R, Orig-B
 Livermore, CA, Livermore Muni, ILS RWY 25R, Amdt 8
 Livermore, CA, Livermore Muni, LOC RWY 25R, Orig
 Colorado Springs, CO, City of Colorado Springs Muni, Takeoff Minimums and Obstacle DP, Amdt 12A
 Orlando, FL, Orlando Sanford Intl, ILS OR LOC RWY 27R, Amdt 4
 Orlando, FL, Orlando Sanford Intl, RNAV (GPS) RWY 27R, Amdt 4
 Muscatine, IA, Muscatine Muni, VOR RWY 6, Orig-D, CANCELED
 Lewiston, ID, Lewiston-Nez Perce County, RNAV (GPS) Y RWY 8, Amdt 2B
 Lewiston, ID, Lewiston-Nez Perce County, RNAV (GPS) Y RWY 26, Orig-B
 Lewiston, ID, Lewiston-Nez Perce County, RNAV (RNP) RWY 30, Orig-C
 Lewiston, ID, Lewiston-Nez Perce County, RNAV (RNP) Z RWY 26, Orig-B
 Lafayette, IN, Purdue University, ILS OR LOC RWY 10, Amdt 11B
 Pikeville, KY, Pike County-Hatcher Field, ILS OR LOC RWY 27, Amdt 2
 Pikeville, KY, Pike County-Hatcher Field, RNAV (GPS) RWY 9, Amdt 2
 Pikeville, KY, Pike County-Hatcher Field, RNAV (GPS) RWY 27, Amdt 2
 Worcester, MA, Worcester Rgnl, ILS OR LOC RWY 11, Amdt 24
 Worcester, MA, Worcester Rgnl, RNAV (GPS) RWY 11, Amdt 2
 Worcester, MA, Worcester Rgnl, RNAV (GPS) RWY 29, Amdt 2
 Eastport, ME, Eastport Muni, RNAV (GPS) RWY 15, Amdt 1
 Eastport, ME, Eastport Muni, RNAV (GPS) RWY 33, Amdt 1
 Fosston, MN, Fosston Muni, RNAV (GPS) RWY 16, Orig-C
 Fosston, MN, Fosston Muni, RNAV (GPS) RWY 34, Orig-C
 Mora, MN, Mora Muni, RNAV (GPS) RWY 35, Orig-A
 Park Rapids, MN, Park Rapids Muni-Konshok Field, RNAV (GPS) RWY 31, Orig-C
 Sidney, MT, Sidney-Richland Rgnl, NDB RWY 19, Amdt 5
 Sidney, MT, Sidney-Richland Rgnl, RNAV (GPS) RWY 1, Amdt 2
 Sidney, MT, Sidney-Richland Rgnl, RNAV (GPS) RWY 19, Amdt 2

Sidney, MT, Sidney-Richland Rgnl, Takeoff Minimums and Obstacle DP, Amdt 6
 Beaufort, NC, Michael J Smith Field, NDB RWY 14, Amdt 1A, CANCELED
 Salisbury, NC, Mid-Carolina Rgnl, NDB RWY 20, Amdt 1B
 Garrison, ND, Garrison Muni, RNAV (GPS) RWY 13, Amdt 1
 Garrison, ND, Garrison Muni, RNAV (GPS) RWY 31, Amdt 1
 Albuquerque, NM, Albuquerque Intl Sunport, RNAV (RNP) Z RWY 26, Amdt 2
 Tonopah, NV, Tonopah, Takeoff Minimums and Obstacle DP, Amdt 2
 Dansville, NY, Dansville Muni, RNAV (GPS) RWY 14, Orig-A
 Dansville, NY, Dansville Muni, RNAV (GPS) RWY 18, Orig, CANCELED
 Anderson, SC, Anderson Rgnl, RNAV (GPS) RWY 23, Amdt 1
 Clark, SD, Clark County, RNAV (GPS) RWY 13, Orig
 Clark, SD, Clark County, RNAV (GPS) RWY 31, Orig
 Clark, SD, Clark County, Takeoff Minimums and Obstacle DP, Orig
 Madison, SD, Madison Muni, RNAV (GPS) RWY 15, Orig-B
 Rapid City, SD, Rapid City Rgnl, ILS OR LOC RWY 32, Amdt 21
 Rapid City, SD, Rapid City Rgnl, RNAV (GPS) RWY 32, Amdt 2
 Memphis, TN, Memphis Intl, Takeoff Minimums and Obstacle DP, Amdt 4A
 Austin, TX, Austin Executive, Takeoff Minimums and Obstacle DP, Orig-A
 Austin, TX, San Marcos Rgnl, Takeoff Minimums and Obstacle DP, Amdt 2B
 Georgetown, TX, Georgetown Muni, Takeoff Minimums and Obstacle DP, Amdt 1A
 Lago Vista, TX, Lago Vista TX - Rusty Allen, Takeoff Minimums and Obstacle DP, Amdt 1A
 Mason, TX, Mason County, RNAV (GPS) RWY 18, Orig-C
 Mason, TX, Mason County, RNAV (GPS) RWY 36, Orig-C
 Mason, TX, Mason County, Takeoff Minimums and Obstacle DP, Amdt 2
 Mason, TX, Mason County, VOR-A, Amdt 4B
 Taylor, TX, Taylor Muni, Takeoff Minimums and Obstacle DP, Amdt 1A
 Cedar City, UT, Cedar City Rgnl, ILS OR LOC RWY 20, Amdt 4B
 Cedar City, UT, Cedar City Rgnl, Takeoff Minimums and Obstacle DP, Amdt 3A
 Salt Lake City, UT, Salt Lake City Intl, Takeoff Minimums and Obstacle DP, Amdt 11A
 Minocqua-Woodruff, WI, Lakeland/Noble F Lee Memorial Field, LOC RWY 36, Amdt 1A
 Minocqua-Woodruff, WI, Lakeland/Noble F Lee Memorial Field, NDB RWY 28, Amdt 12A
 Minocqua-Woodruff, WI, Lakeland/Noble F Lee Memorial Field, RNAV (GPS) RWY 28, Orig-A
 Minocqua-Woodruff, WI, Lakeland/Noble F Lee Memorial Field, RNAV (GPS) RWY 36, Orig-A

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.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW29 CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 2600 DIRECT BAYYS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 235.03 INBOUND. FAS OBST: 125 SHIP 410936N/0730422W CHART CIRCLING ICON. SETHE TO RW29: 3.00/55.											
MAD VOR/DME (IAF)	MADDG (TF) (FB) (RNP 1.00)	237.79 / 14.39	2000												
CCC VOR/DME (IAF)	MADDG (TF) (FB) (RNP 1.00)	350.51 / 13.87	2000												
MADDG (IF)	SETHE (TF) (FB) (RNP 1.00)	290.98 / 4.78	1500												
SETHE (FAF)	RW29 (MAP) (TF) (FO) (RNP 0.30)	290.90 / 4.52													
RW29 (MAP)	500 MSL (CA)	290.90	500												
500 MSL	BAYYS (DF) (FO) (RNP 1.00)		2600												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MADDG 3. FAC: <u>290.90</u> FAF: <u>SETHE</u> DIST FAF TO MAP: <u>4.52</u> THLD: <u>4.52</u> 4. MIN. ALT: MADDG 2000, SETHE 1500 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: RW29 2700				MAG VAR: 13W EPOCH YEAR: 1980											
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	380	1	373	380	1	373	380	1	373	380	1	373			
CIRCLING	400	1	391	620	1	611	820	2 1/2	811	820	2 3/4	811			
NOTES: CHART NOTE: CIRCLING TO RWY 11 NA AT NIGHT. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MAD VOR/DME AIRWAY RADIALS 155 CW 317. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CCC VOR/DME AIRWAY RADIALS 263 CW 057. CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.															
CITY AND STATE		ELEVATION: 9 TDZE: 7		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
BRIDGEPORT, CT		AIRPORT NAME:		IGOR I SIKORSKY MEMORIAL		RNAV (GPS) RWY 29, AMDT 1A				AMDT: 1					
						20 JULY 2017				DATED		06/22/2017			

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES													MISSED APPROACH								
FROM			TO			COURSE AND DISTANCE			ALTITUDE			ILS: DA LOC: I-LAL 1.56 DME									
LAL VORTAC			ARSHW/I-LAL 12.32 DME			269.76 / 11.82			2700			CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 290 AND ON LAL VORTAC R-330 TO PLUMY INT/PIE 33.35 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 255 AND ON SRQ (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD NE, RT, 246.70 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE PACIB INT/SRQ 27.21 DME, RT, 225.07 INBOUND. CHART IN PLANVIEW: PACIB INT/SRQ 27.21 DME. CHART FAS OBST: 196 TREE 275922N/0820235W CHART VDP AT 2.43 DME* DISTANCE VDP TO THLD 0.87 NM. *LOC ONLY.									
ARSHW/I-LAL 12.32 DME (IF/IAF)			FLYEN/I-LAL 6.32 DME			093.85 / 6.00 (I-LAL)			1700												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)													MAG VAR: 4W EPOCH YEAR: 2000								
2. HOLD W ARSHW, RT, 093.85 INBOUND, 2700 FT. IN LIEU OF PT (IAF)																					
3. FAC: 093.85 FAF: FLYEN/I-LAL 6.32 DME DIST FAF TO MAP: _____ THLD: 4.76																					
4. MIN. ALT: ARSHW 2700, FLYEN 1700, SUNFN/I-LAL 3.46 DME 780*																					
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																					
6. MIN GS INCPT: 1700 GS ALT AT: FLYEN 1700 OM: _____ MM: _____ IM: _____																					
7. GS ANGLE: 3.00 TCH: 50.8																					
8. MSA FROM: LAL VORTAC 080-310 2700, 310-080 2200																					
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 09	332	1/2	200	332	1/2	200	332	1/2	200	332	1/2	200									
S-LOC 09	460	1/2	328	460	1/2	328	460	1/2	328	460	1/2	328									
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558									
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE # @ NA WHEN LOCAL WEATHER NOT AVAILABLE. ALL DA/MDA 20 FT; INCREASE S-LOC 9 CAT C/D VISIBILITY 1/8 SM. CHART PROFILE NOTE: USE I-LAL DME WHEN ON THE LOCALIZER COURSE. CHART NOTE: FOR INOPERATIVE ALS WHEN USING PLANT CITY ALTIMETER SETTING, INCREASE S-LOC 9 CAT C/D (CONTINUED ON PAGE 2)																					
CITY AND STATE LAKELAND, FL			ELEVATION: 142 TDZE: 132 AIRPORT NAME: LAKELAND LINDER RGNL				FACILITY IDENTIFIER: I-LAL			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 9, ORIG-B 20 JULY 2017						SUP: AMDT: ORIG-A DATED 06/26/2014					



**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.

MISSED APPROACH INSTRUCTIONS, (CONT.):

VOR/DME R-045 TO PACIB INT/SRQ 27.21 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

NOTES, (CONT.):

VISIBILITY TO 1 SM.

CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.

CHART NOTE: DME REQUIRED.

QUALITY
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CITY AND STATE

LAKELAND, FL

ELEVATION: 142**TDZE: 132**

AIRPORT NAME:

LAKELAND LINDER RGNL

FACILITY
IDENTIFIER:

I-LAL

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 9, ORIG-B

20 JULY 2017

SUP:

AMDT: **ORIG-A**DATED: **06/26/2014**

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		LPV: DA LNAV/VNAV: DA LNAV: RW05 CLIMB TO 2000 DIRECT OBTOQ AND LEFT TURN ON TRACK 311.01 TO PLUMY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 241.00 INBOUND. CHART FAS OBST: 197 TREE 275835N/0820146W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.17 NM TO RW05* *LNAV ONLY. WAAS CHANNEL # 42805 REFERENCE PATH ID: W05A LTP HAE: 13.9 M					
IPUNE (IAF)		ZUXON (NOPT) (TF) (FB) (RNP 1.00)			138.75 / 5.00			2700							
SANOY (IAF)		ZUXON (NOPT) (TF) (FB) (RNP 1.00)			318.81 / 5.00			2700							
ZUXON (IF/IAF)		BIYAT (TF) (FB) (RNP 1.00)			048.78 / 6.10			1700							
BIYAT (FAF)		RW05 (MAP) (TF) (FO) (RNP 0.30)			048.82 / 4.69										
RW05 (MAP)		336 MSL (CA)			048.82										
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW ZUXON, RT, 048.78 INBOUND, 2700 FT. IN LIEU OF PT (IAF) 3. FAC: 048.82 FAF: BIYAT DIST FAF TO MAP: 4.69 THLD: 4.69 4. MIN. ALT: ZUXON 2700, BIYAT 1700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1700 GS ALT AT: BIYAT 1700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 56.4 34:1 IS CLEAR 8. MSA FROM: _____															
										MAG VAR: 4W			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	336	3/4	200	336	3/4	200	336	3/4	200	336	3/4	200			
LNAV/VNAV DA	505	1 1/4	369	505	1 1/4	369	505	1 1/4	369	505	1 1/4	369			
LNAV MDA	560	1	424	560	1	424	560	1 1/4	424	560	1 1/4	424			
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558			
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: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FT AND LNAV CAT C/D VISIBILITY 1/8 SM. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 142 TDZE: 136			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:			
LAKELAND, FL		AIRPORT NAME:			LAKELAND LINDER RGNL		RNAV (GPS) RWY 5, ORIG-E 20 JULY 2017					AMDT: ORIG-D			
												DATED 05/28/2015			

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
336 MSL	OBTOQ (DF) (FB) (RNP 1.00)		
OBTOQ	PLUMY (TF) (FO) (RNP 1.00)	311.01 / 12.17	2000

NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.

CHART NOTE: CIRCLING NA TO RWYS 8, 26.

TAA

	FROM	TO	ALT
1.	319/30 CW 139/30 (NOPT)	319/20 CW 139/20	2800
	319/20 CW 139/20	ZUXON (IF/IAF) (FB)	2700
2.	139/30 CW 229/30	IPUNE (IAF) (FB)	2700
3.	229/30 CW 319/30	SANOY (IAF) (FB)	2700

QUALITY
25
CHECKED

CITY AND STATE LAKELAND, FL	ELEVATION: 142	TDZE: 136	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, ORIG-E 20 JULY 2017	SUP:
	AIRPORT NAME:				AMDT: ORIG-D
	LAKELAND LINDER RGNL				DATED: 05/28/2015

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAL
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	275900.3890N
LTP/FTP LONGITUDE	0820113.3830W
LTP/FTP ELLIPSOIDAL HEIGHT	+00139
FPAP LATITUDE	280003.7300N
FPAP LONGITUDE	0820002.3900W
THRESHOLD CROSSING HEIGHT (TCH)	00056.4
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

CE879DA6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00396
FPAP ORTHOMETRIC HEIGHT	+00396

QUALITY
25
CHECKED

CITY AND STATE LAKELAND, FL	ELEVATION: 142 AIRPORT NAME: LAKELAND LINDER RGNL	TDZE: 136 	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, ORIG-E 20 JULY 2017	SUP:
					AMDT: ORIG-D
					DATED: 05/28/2015

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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			LPV: DA LNAV/VNAV: DA LNAV: RW09 CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2000 DIRECT PLUMY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 241.00 INBOUND. CHART FAS OBST: 258 TOWER 275956N/0820145W CHART LAKE PLACID MOA. DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.06 NM TO RW09* *LNAV ONLY. WAAS CHANNEL # 78305 REFERENCE PATH ID: W09A LTP HAE: 14.5 M									
GUUNR (IAF)			ARSHW (NOPT) (TF) (FB) (RNP 1.00)			183.76 / 5.84			2700												
BOMRR (IAF)			ARSHW (NOPT) (TF) (FB) (RNP 1.00)			003.76 / 5.84			2700												
ARSHW (IF/IAF)			FLYEN (TF) (FB) (RNP 1.00)			093.76 / 6.00			1700												
FLYEN (FAF)			SUNFN/1.90 NM TO RW09 (TF) (FB) (RNP 0.30)			093.81 / 2.86															
SUNFN/1.90 NM TO RW09			RW09 (MAP) (TF) (FO) (RNP 0.30)			093.81 / 1.90															
(SEE FORM 8260-10)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W ARSHW, RT, 093.76 INBOUND, 2700 FT. IN LIEU OF PT (IAF) 3. FAC: 093.81 FAF: FLYEN DIST FAF TO MAP: 4.76 THLD: 4.76 4. MIN. ALT: ARSHW 2700, FLYEN 1700, SUNFN/1.90 NM TO RW09 780* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1700 GS ALT AT: FLYEN 1700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.8 34:1 IS CLEAR 8. MSA FROM: _____																		MAG VAR: 4W		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	332	1/2	200	332	1/2	200	332	1/2	200	332	1/2	200									
LNAV/VNAV DA	439	1/2	307	439	1/2	307	439	1/2	307	439	1/2	307									
LNAV MDA	520	1/2	388	520	1/2	388	520	5/8	388	520	5/8	388									
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558									
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: DME/DME RNP-0.3 NA. CHART SPEED ICON IN PLANVIEW AT GUUNR : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT BOMRR : MAX 210 KIAS. (CONTINUED ON PAGE 2)																					
CITY AND STATE				ELEVATION: 142 TDZE: 132				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
LAKELAND, FL				AIRPORT NAME:				RNAV				RNAV (GPS) RWY 9, AMDT 2C 20 JULY 2017				AMDT: 2B					
				LAKELAND LINDER RGNL												DATED 06/26/2014					



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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW09 (MAP)	1100 MSL (CA)	093.81	1100
1100 MSL	PLUMY (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FEET, INCREASE LNAV/VNAV ALL CATS VISIBILITY AND LNAV CATS C/D VISIBILITY 1/8 SM.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CATS C/D VISIBILITY TO 1 1/8 SM.
 CHART NOTE: FOR INOPERATIVE ALS WHEN USING PLANT CITY ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 SM.
 CHART NOTE: CIRCLING NA TO RWYS RWY 8 AND 26.

TAA

	FROM	TO	ALT
1.	004/30 CW 184/30 (NOPT)	ARSHW (IF/IAF) (FB)	2700
2.	184/30 CW 274/30	GUUNR (IAF) (FB)	2700
3.	274/30 CW 004/30	274/20 CW 004/20	2800
	274/20 CW 004/20	BOMRR (IAF) (FB)	2700

QUALITY
25
CHECKED

CITY AND STATE LAKELAND, FL	ELEVATION: 142	TDZE: 132	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 2C 20 JULY 2017	SUP:
	AIRPORT NAME:				AMDT: 2B
	LAKELAND LINDER RGNL				DATED: 06/26/2014

**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	KLAL
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	275921.2540N
LTP/FTP LONGITUDE	0820201.9260W
LTP/FTP ELLIPSOIDAL HEIGHT	+00145
FPAP LATITUDE	275921.4800N
FPAP LONGITUDE	0820021.2800W
THRESHOLD CROSSING HEIGHT (TCH)	00051.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0160
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 B60B06A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00402
FPAP ORTHOMETRIC HEIGHT	+00402

QUALITY
25
CHECKED

CITY AND STATE LAKELAND, FL	ELEVATION: 142 AIRPORT NAME: LAKELAND LINDER RGNL	TDZE: 132 LAKELAND LINDER RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 2C 20 JULY 2017	SUP:
					AMDT: 2B
					DATED: 06/26/2014

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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			LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 2000 DIRECT BIYAT AND RIGHT TURN ON TRACK 328.00 TO MIREE THEN ON TRACK 011.82 TO PLUMY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 241.00 INBOUND. CHART FAS OBST: 210 TREE 275927N/0815959W CHART FAS OBST: 465 TOWER 280224N/0815738W CHART 580 TOWER 280300N/0815632W. DISTANCE TO THLD FROM 285 HAT: 0.74 NM. CHART VDP AT 1.66 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 77805 REFERENCE PATH ID: W23A LTP HAE: 17.2 M									
EHAGU (IAF)			JOVMU (NOPT) (TF) (FB) (RNP 1.00)			318.95 / 5.00			2700												
LEZTI (IAF)			JOVMU (NOPT) (TF) (FB) (RNP 1.00)			138.89 / 5.00			2700												
JOVMU (IF/IAF)			OBTOQ (TF) (FB) (RNP 1.00)			228.92 / 6.10			1700												
OBTOQ (FAF)			RW23 (MAP) (TF) (FO) (RNP 0.30)			228.88 / 4.68															
RW23 (MAP)			426 MSL (CA)			228.88															
(SEE FORM 8260-10)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE JOVMU, RT, 228.92 INBOUND, 2700 FT. IN LIEU OF PT (IAF) 3. FAC: 228.88 FAF: OBTOQ DIST FAF TO MAP: 4.68 THLD: 4.68 4. MIN. ALT: JOVMU 2700, OBTOQ 1700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1700 GS ALT AT: OBTOQ 1700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS NOT CLEAR 8. MSA FROM: _____																		MAG VAR: 4W		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	426	1	285	426	1	285	426	1	285	426	1	285									
LNAV/VNAV DA	480	1 1/4	339	480	1 1/4	339	480	1 1/4	339	480	1 1/4	339									
LNAV MDA	720	1	579	720	1	579	720	1 5/8	579	720	1 3/4	579									
CIRCLING	720	1	578	720	1	578	720	1 5/8	578	720	2	578									
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: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FEET AND INCREASE LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/8 SM. (CONTINUED ON PAGE 2)																					
CITY AND STATE			ELEVATION: 142 TDZE: 141			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:						
LAKELAND, FL			AIRPORT NAME:			LAKELAND LINDER RGNL			RNAV (GPS) RWY 23, ORIG-C 20 JULY 2017						AMDT: ORIG-B						
															DATED 06/26/2014						

QUALITY
 25
 CHECKED

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
426 MSL	BIYAT (DF) (FB) (RNP 1.00)		
BIYAT	MIREE (TF) (FB) (RNP 1.00)	328.00 / 6.50	
MIREE	PLUMY (TF) (FO) (RNP 1.00)	011.82 / 9.37	2000

NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.

CHART NOTE: RWY 23 HELICOPTOR VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.

TAA

	FROM	TO	ALT
1.	139/30 CW 319/30 (NOPT)	JOVMU (IF/IAF) (FB)	2700
2.	319/30 CW 049/30	EHAGU (IAF) (FB)	2700
3.	049/30 CW 139/30	LEZTI (IAF) (FB)	2700



CITY AND STATE LAKELAND, FL	ELEVATION: 142 AIRPORT NAME: LAKELAND LINDER RGNL	TDZE: 141	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, ORIG-C 20 JULY 2017	SUP:
					AMDT: ORIG-B
					DATED: 06/26/2014

**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	KLAL
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	275935.5210N
LTP/FTP LONGITUDE	0820034.0065W
LTP/FTP ELLIPSOIDAL HEIGHT	+00172
FPAP LATITUDE	275832.1800N
FPAP LONGITUDE	0820144.9800W
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
 <u>CRC REMAINDER</u>	 A3A40F74

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00430
FPAP ORTHOMETRIC HEIGHT	+00430

QUALITY
25
CHECKED

CITY AND STATE LAKELAND, FL	ELEVATION: 142 AIRPORT NAME: LAKELAND LINDER RGNL	TDZE: 141 LAKELAND LINDER RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, ORIG-C 20 JULY 2017	SUP:
					AMDT: ORIG-B
					DATED: 06/26/2014

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		LPV: DA LNAV/VNAV: DA LNAV: RW27 CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2000 DIRECT PLUMY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 241.00 INBOUND. CHART FAS OBST: 244 CRANE 275956N/0820023W CHART 465 TOWER 275801N/0815505W. CHART LAKE PLACID MOA, R-2901. DISTANCE TO THLD FROM 200 HAT: 0.49 NM. CHART VDP AT 1.05 NM TO RW27* *LNAV ONLY. WAAS CHANNEL # 82605 REFERENCE PATH ID: W27A LTP HAE: 17.5 M									
RETME (IAF)		GILDE (NOPT) (TF) (FB) (RNP 1.00)			003.96 / 5.84			2700											
KONDE (IAF)		GILDE (NOPT) (TF) (FB) (RNP 1.00)			183.96 / 5.84			2700											
GILDE (IF/IAF)		ECADE (TF) (FB) (RNP 1.00)			273.96 / 6.10			1700											
ECADE (FAF)		CUVNA/1.90 NM TO RW27 (TF) (FB) (RNP 0.30)			273.90 / 2.85														
CUVNA/1.90 NM TO RW27		RW27 (MAP) (TF) (FO) (RNP 0.30)			273.90 / 1.90														
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E GILDE, RT, 273.96 INBOUND, 2700 FT. IN LIEU OF PT (IAF) 3. FAC: 273.90 FAF: ECADE DIST FAF TO MAP: 4.75 THLD: 4.75 4. MIN. ALT: GILDE 2700, ECADE 1700, CUVNA/1.90 NM TO RW27 780* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1700 GS ALT AT: ECADE 1700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 4W		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	342	3/4	200	342	3/4	200	342	3/4	200	342	3/4	200							
LNAV/VNAV DA	455	1	313	455	1	313	455	1	313	455	1	313							
LNAV MDA	560	1	418	560	1	418	560	1 1/8	418	560	1 1/8	418							
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558							
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: DME/DME RNP-0.3 NA. CHART SPEED ICON IN PLANVIEW AT RETME : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT KONDE : MAX 210 KIAS. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 142 TDZE: 142			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:						
LAKELAND, FL		AIRPORT NAME:			LAKELAND LINDER RGNL			RNAV (GPS) RWY 27, AMDT 2B					AMDT: 2A						
								20 JULY 2017					DATED 06/26/2014						

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW27 (MAP)	1000 MSL (CA)	273.90	1000
1000 MSL	PLUMY (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FEET, AND INCREASE LNAV/VNAV ALL CATS AND LNAV CATS C/D VISIBILITY 1/8 SM.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.

CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.

TAA

	FROM	TO	ALT
1.	184/30 CW 004/30 (NOPT)	GILDE (IF/IAF) (FB)	2700
2.	004/30 CW 094/30	RETME (IAF) (FB)	2700
3.	094/30 CW 184/30	KONDE (IAF) (FB)	2700

QUALITY
25
CHECKED

CITY AND STATE

LAKELAND, FL

ELEVATION: 142

TDZE: 142

AIRPORT NAME:

LAKELAND LINDER RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 27, AMDT 2B

20 JULY 2017

SUP:

AMDT: 2A

DATED: 06/26/2014

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAL
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	275921.4565N
LTP/FTP LONGITUDE	0820027.1190W
LTP/FTP ELLIPSOIDAL HEIGHT	+00175
FPAP LATITUDE	275921.2280N
FPAP LONGITUDE	0820207.7655W
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	0160
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

AB30F2C8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00433
FPAP ORTHOMETRIC HEIGHT	+00433

QUALITY
25
CHECKED

CITY AND STATE

LAKELAND, FL

ELEVATION: 142

TDZE: 142

AIRPORT NAME:

LAKELAND LINDER RGNL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

 RNAV (GPS) RWY 27, AMDT 2B
20 JULY 2017

SUP:

AMDT: 2A

DATED: 06/26/2014

**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.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
LAKELAND, FL	LAKELAND LINDER RGNL	20 JULY 2017	1A

TAKEOFF MINIMUMS:

RWY 8, 26: NA - ENVIRONMENTAL.
RWY 5, 9, 23, 27: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5, POLES BEGINNING 1099 FT FROM DER, 475 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/175 FT MSL. POLE 1144 FT FROM DER, 746 FT RIGHT OF CENTERLINE, 42 FT AGL/185 FT MSL. TREES BEGINNING 1261 FT FROM DER, 427 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/180 FT MSL. TREES BEGINNING 720 FT FROM DER, 49 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/191 FT MSL.

NOTE: RWY 9, TREE 2551 FT FROM DER, 582 FT LEFT OF CENTERLINE, 66 FT AGL/210 FT MSL. TREES BEGINNING 2520 FT FROM DER, 259 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/212 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY:

STEPHEN JUTRAS

Digitally signed by

ALLAN WILL

May 30, 2017

OFFICE SYMBOL:

FIOG

DATE:

05/19/2017

DEVELOPED BY:

PHIL BRANDENBURG

Digitally signed by

PHILLIP BRANDENBURG

Apr 03, 2017

OFFICE SYMBOL:

AJV-5412

DATE:

12/09/2016

APPROVED BY:

GEORGE DAVIS

Digitally signed by

ALLAN WILL

May 30, 2017

OFFICE SYMBOL:

AJV-5410

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**



OTHER:

ATA, KLAL AMGR, KLAL ATCT, KTPA APP CON, ZMA

CHANGES - REASONS:

1. ADDED RWY 8, 26: NA - ENVIRONMENTAL TO TAKEOFF MINIMUMS, NON RAPT APPROVED TURF RWY.

THIS CLEARS FDC 6/9021.



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: 3.84 NM AFTER AIRBS/LAL 4.92 DME/RADAR OR AT HANAX/1.08 DME FIX								
LLEGO/10.92 DME/RADAR (IF)			AIRBS/4.92 DME/RADAR			095.65 / 6.00 (LAL R-276)			1400		CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 294 AND ON LAL VORTAC R-330 TO PLUMY INT/PIE 33.35 DME AND HOLD.								
										ADDITIONAL FLIGHT DATA: HOLD NE, RT, 246.70 INBOUND. CHART FAS OBST: 212 TREE 275928N/0820209W CHART 385 STACK 275917N/0820450W. CHART VDP AT 2.07 DME DISTANCE VDP TO THLD 0.99 NM. AIRBS TO RW09: 2.98/52. CHART PIE VORTAC R-067 AT PLUMY INT/PIE 33.35 DME. FAC CROSSES RWY C/L EXTENDED 3025 FT FROM THLD. CHART PLANVIEW NOTE: RADAR REQUIRED.									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 1E EPOCH YEAR: 1965									
2. PROFILE STARTS AT LLEGO/10.92 DME/RADAR																			
3. FAC 095.65 FAF AIRBS/4.92 DME/RADAR DIST FAF TO MAP 3.84 THLD 3.84																			
4. MIN. ALT LLEGO 2000, AIRBS 1400, UDATE/2.80 DME 700*																			
8. MSA FROM: LAL VORTAC 080-310 2700, 310-080 2200																			
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-09	700	1/2	568	700	1/2	568	700	1 1/4	568	700	1 1/4	568							
CIRCLING	700	1	558	700	1	558	700	1 1/2	558	700	2	558							
UDATE FIX MINIMUMS																			
S-09	500	1/2	368	500	1/2	368	500	3/4	368	500	3/4	368							
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558							
NOTES: CHART NOTE: DME OR RADAR REQUIRED. *720 WHEN USING PLANT CITY ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL MDA 20 FEET; INCREASE CIRCLING CAT C VISIBILITY 1/8 MILE. (CONTINUED ON PAGE 2)																			
CITY AND STATE LAKELAND, FL		ELEVATION: 142 TDZE: 132 AIRPORT NAME: LAKELAND LINDER RGNL		FACILITY IDENTIFIER: LAL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 9, AMDT 4D 20 JULY 2017				SUP AMDT 4C DATE 06/26/2014									



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

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

NOTES, (CONT.):**CHART NOTE: VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.****CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-9 CAT C/D VISIBILITY TO 1 5/8 SM; INCREASE UDATE FIX****MINIMUMS S-9 CAT C/D VISIBILITY TO 1 3/4 SM.****CHART NOTE: FOR INOPERATIVE MALSR WHEN USING PLANT CITY ALTIMETER SETTING, INCREASE UDATE FIX****MINIMUMS S-9 CAT C/D VISIBILITY TO 1 1/8 SM.****CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.**

QUALITY
30
CHECKED

CITY AND STATE

LAKELAND, FL

ELEVATION: 142**TDZE: 132**

AIRPORT NAME:

LAKELAND LINDER RGNL

FACILITY
IDENTIFIER:

LAL

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 9, AMDT 4D

20 JULY 2017

SUP:

AMDT: **4C**DATED: **06/26/2014**

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: LAL VORTAC					
										CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2000 ON HEADING 017 AND ON LAL VORTAC R-330 TO PLUMY INT/PIE 33.35 DME AND HOLD.					
										ADDITIONAL FLIGHT DATA: HOLD NE, RT, 246.70 INBOUND. CHART FAS OBST: 288 TANK 275827N/0820038W CHART 542 TOWER 275936N/0815322W. 394 AAO 275815N/0815654W AMBAZ TO RW27: 2.96/45. CHART PIE VORTAC R-067 AT PLUMY INT/PIE 33.35 DME. FAC CROSSES RWY C/L EXTENDED 3002 FT FROM THLD.					
1. PT <u>R</u> SIDE OF COURSE <u>076.29</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>LAL VORTAC</u> (IAF)															
2.															
3. FAC <u>256.29</u> FAF _____ DIST FAF TO MAP _____ THLD _____															
4. MIN. ALT <u>AMBAZ/LAL 2.70 DME 920*</u>															
8. MSA FROM: <u>LAL VORTAC 080-310 2700, 310-080 2200</u>										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
S-27	920	1	778	920	1 1/4	778	920	2 1/2	778	920	2 1/2	778			
CIRCLING	920	1	778	920	1 1/4	778	920	2 1/2	778	920	2 1/2	778			
AMBAZ FIX MINIMUMS															
S-27	540	1	398	540	1	398	540	1 1/8	398	540	1 1/8	398			
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558			
NOTES:															
*940 WHEN USING PLANT CITY ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL MDA 20 FT. CHART NOTE: CIRCLING NA TO RWYS RWY 8 AND 26.										@ NA WHEN LOCAL WEATHER NOT AVAILABLE. @ CAT C, D 800-2 1/2					
CITY AND STATE LAKELAND, FL		ELEVATION: 142 AIRPORT NAME: LAKELAND LINDER RGNL		TDZE: 142		FACILITY IDENTIFIER: LAL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 27, AMDT 7G 20 JULY 2017				SUP AMDT 7F DATE 05/28/2015			



**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.

QUALITY
4
CHECKED

CITY AND STATE

LAKELAND, FL

ELEVATION: 142

TDZE: 142

AIRPORT NAME:

LAKELAND LINDER RGNL

FACILITY
IDENTIFIER:

LAL

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 27, AMDT 7G

20 JULY 2017

SUP:

AMDT: 7F

DATED: 05/28/2015

ILS - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION 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-MDQ 1.23 DME CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 120 AND RQZ VORTAC R-080 TO PRONE INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD E, RT, 259.92 INBOUND. CHART FAS OBST: 931 TREE 345321N/0863329W CHART VDP AT 2.61 DME* DISTANCE VDP TO THLD 1.38 NM. *LOC ONLY. CHART CIRCLING ICON. CHART RQZ 17.42 DME AT EROVE CHART IN PLANVIEW ONLY: SYI 27.11 DME AT JEKBA.						
RQZ VORTAC		EROVE/I-MDQ 13.94 DME			011.18 / 17.42			3400								
JEKBA/I-MDQ 16.25 DME (IAF)		EROVE/I-MDQ 13.94 DME (NOPT)			184.93 / 2.31 (I-MDQ)			3400								
EROVE/I-MDQ 13.94 DME (IF/IAF)		FALOL/I-MDQ 6.68 DME			184.93 / 7.25 (I-MDQ)			2500								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N EROVE, RT, 184.93 INBOUND, 3400 FT. IN LIEU OF PT (IAF) 3. FAC: <u>184.93</u> FAF: <u>FALOL/I-MDQ 6.68 DME</u> DIST FAF TO MAP: _____ THLD: <u>5.46</u> 4. MIN. ALT: EROVE 3400, FALOL 2500, LACPI/I-MDQ 3.13 DME 1360* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 753 6. MIN GS INCPT: <u>2500</u> GS ALT AT: <u>FALOL 2500</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>43.1</u> 8. MSA FROM: _____										MAG VAR: 4W		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 18	940	3/4	200	940	3/4	200	940	3/4	200	940	3/4	200				
S-LOC 18	1200	1	460	1200	1	460	1200	1 3/8	460	1200	1 3/8	460				
CIRCLING	1260	1	496	1260	1	496	1560	2 1/4	796	2000	3	1236				
NOTES: CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME REQUIRED. CHART NOTE: VDP NA WITH HUNTSVILLE INTL-CARL T JONES FIELD ALTIMETER SETTING. CHART PLANVIEW NOTE: DME OR RNAV 1-GPS REQUIRED. (CONTINUED ON PAGE 2)																
CITY AND STATE HUNTSVILLE, AL		ELEVATION: 764 TDZE: 740 AIRPORT NAME: HUNTSVILLE EXECUTIVE AIRPORT TOM SHARP JR FLD			FACILITY IDENTIFIER: I-MDQ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 18, AMDT 1B 17 AUGUST 2017					SUP: ILS OR LOC/DME RWY 18				
												AMDT: 1A				
												DATED 09/18/2014				



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

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

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HUNTSVILLE INTL-CARL T JONES FIELD ALTIMETER SETTING AND INCREASE ALL DA 59 FEET AND ALL MDA 60 FEET. INCREASE S-ILS 18 ALL CATS VISIBILITY 1/8 SM AND INCREASE S-LOC 18 CAT C/D VISIBILITY 1/8 SM AND INCREASE CIRCLING CAT C VISIBILITY 1/4 SM.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	095/30 CW 275/30 (NOPT)	095/5 CW 275/5	4200
2.	095/5 CW 275/5	EROVE (IF/IAF) (FB)	3400
3.	275/30 CW 095/30	275/5 CW 095/5	4700
4.	275/5 CW 095/5	EROVE (IAF) (FO)	3400

QUALITY
25
CHECKED

CITY AND STATE

HUNTSVILLE, AL

ELEVATION: 764

TDZE: 740

AIRPORT NAME:

HUNTSVILLE EXECUTIVE AIRPORT TOM SHARP
JR FLD

FACILITY
IDENTIFIER:

I-MDQ

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 18, AMDT 1B

17 AUGUST 2017

SUP: ILS OR LOC/DME
RWY 18

AMDT: 1A

DATED: 09/18/2014

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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			LPV: DA LNAV/VNAV: DA LNAV: RW31R CLIMB TO 3000 DIRECT ZOTWY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 131.32 INBOUND. CHART FAS OBST: 241 TREE 394712N/1215051W CHART FAS OBST: 347 TOWER 394557N/1214925W DISTANCE TO THLD FROM 250 HAT: 0.69 NM. CHART VDP AT 1.06 NM TO RW31R* *LNAV ONLY. WAAS CHANNEL # 77912 REFERENCE PATH ID: W31A LTP HAE: 35.8 M									
GRIDD			KLEMM (TF) (FB) (RNP 2.00)			028.94 / 14.58			3000												
KLEMM (IAF)			UNJED (TF) (FB) (RNP 1.00)			311.58 / 9.10			3000												
UNJED (IF)			DIANS (TF) (FB) (RNP 1.00)			311.51 / 6.01			2000												
DIANS (FAF)			STARW/2.50 NM TO RW31R (TF) (FB) (RNP 0.30)			311.47 / 2.89															
STARW/2.50 NM TO RW31R			RW31R (MAP) (TF) (FO) (RNP 0.30)			311.47 / 2.50															
(SEE FORM 8260-10)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT UNJED 3. FAC: 311.47 FAF: DIANS DIST FAF TO MAP: 5.39 THLD: 5.39 4. MIN. ALT: UNJED 3000, DIANS 2000, STARW/2.50 NM TO RW31R 1060* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: DIANS 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS CLEAR 8. MSA FROM: RW31R 8300																		MAG VAR: 16E		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	476	1	250	476	1	250	476	1	250	476	1	250									
LNAV/VNAV DA	733	1 3/4	507	733	1 3/4	507	733	1 3/4	507	733	1 3/4	507									
LNAV MDA	600	1	374	600	1	374	600	1	374	600	1 1/4	374									
CIRCLING	640	1	400	700	1	460	700	1 1/2	460	800	2	560									
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING NA E OF RWY 13L/31R. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GRIDD ON V23 SOUTHEAST BOUND. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																					
CITY AND STATE				ELEVATION: 240 TDZE: 226				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
CHICO, CA				AIRPORT NAME: CHICO MUNI								RNAV (GPS) RWY 31R, ORIG-B 17 AUGUST 2017				AMDT: ORIG-A					
																DATED 05/02/2013					

QUALITY
 10
 CHECKED

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW31R (MAP)	476 MSL (CA)	311.47	
476 MSL	ZOTWY (DF) (FO) (RNP 1.00)		3000

CITY AND STATE
CHICO, CA

ELEVATION: 240 TDZE: 226
AIRPORT NAME:
CHICO MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 31R, ORIG-B
17 AUGUST 2017

SUP: **QUALITY 10 CHECKED**
AMDT: ORIG-A
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	KCIC
RUNWAY	RW31R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	394716.1780N
LTP/FTP LONGITUDE	1215104.4520W
LTP/FTP ELLIPSOIDAL HEIGHT	+00358
FPAP LATITUDE	394831.3200N
FPAP LONGITUDE	1215206.6900W
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	0704
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 D7E8086A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00632
FPAP ORTHOMETRIC HEIGHT	+00632

CITY AND STATE

CHICO, CA

ELEVATION: 240

TDZE: 226

AIRPORT NAME:

CHICO MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31R, ORIG-B

17 AUGUST 2017

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

ORIG-A

05/02/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA							
UHHUT/RADAR (IAF)		FOOTO/RADAR		254.58 / 3.10 (I-LVK)				3100		CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 020 AND OAK VOR/DME R-060 TO ALTAM/OAK VOR/DME 23.25 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. *MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 358 FT PER NM TO 3600, IF UNABLE TO MEET CLIMB GRADIENT, PROCEDURE NA.							
FOOTO/RADAR (IF)		JUSOM/RADAR		254.58 / 3.12 (I-LVK)				3100									
										ADDITIONAL FLIGHT DATA: HOLD NE, LT, 240.01 INBOUND. CHART R-2531. CHART PLANVIEW NOTE: RADAR REQUIRED.							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. PROFILE STARTS AT FOOTO																	
3. FAC: 254.58 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																	
4. MIN. ALT: FOOTO 3100, JUSOM 3100																	
5. DIST TO THLD FROM OM: 8.33 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 989																	
6. MIN GS INCPT: 3100 GS ALT AT: JUSOM 3100 OM: - MM: - IM: -																	
7. GS ANGLE: 3.00 TCH: 47.0																	
8. MSA FROM: OAK VOR/DME 170-350 3800, 350-170 5100										MAG VAR: 16E				EPOCH YEAR: 1980			
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		ILS: STANDARD #					
CATEGORY ==>		A		B		C		D		E							
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 25R		600	1/2	200	600	1/2	200	600	1/2	200	600	1/2	200				
NOTES: CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1700. CHART NOTE: DME AND RADAR REQUIRED.																	
										# NA WHEN CONTROL TOWER CLOSED.							
CITY AND STATE LIVERMORE, CA		ELEVATION: 400 TDZE: 400 AIRPORT NAME: LIVERMORE MUNI		FACILITY IDENTIFIER: I-LVK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS RWY 25R, AMDT 8 17 AUGUST 2017						SUP: AMDT: 7A DATED 10/13/1999					

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.

QUALITY
7
CHECKED

CITY AND STATE LIVERMORE, CA	ELEVATION: 400	TDZE: 400	FACILITY IDENTIFIER: I-LVK	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS RWY 25R, AMDT 8 17 AUGUST 2017	SUP:
	AIRPORT NAME: LIVERMORE MUNI				AMDT: 7A
					DATED: 10/13/1999

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		MAP: 8.33 NM AFTER JUSOM/RADAR					
UHHUT/RADAR (IAF)		FOOTO/RADAR			254.58 / 3.10 (I-LVK)			3100		CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 020 AND OAK VOR/DME R-060 TO ALTAM/OAK VOR/DME 23.25 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. *MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 235 FT PER NM TO 3600.					
FOOTO/RADAR (IF)		JUSOM/RADAR			254.58 / 3.12 (I-LVK)			3100							
										ADDITIONAL FLIGHT DATA: HOLD NE, LT, 240.01 INBOUND. FAS OBST: 819 AAO 374105N/1214258W CHART: 1980 WINDMILL 374244N/1213937W 2219 AAO 374032N/1213737W 919 AAO 374051N/1214135W CHART R-2531. CHART CIRCLING ICON. JUSOM TO RW25R: 3.00/47. CHART PLANVIEW NOTE: RADAR REQUIRED.					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 16E EPOCH YEAR:1980					
2. PROFILE STARTS AT FOOTO															
3. FAC 254.58 FAF JUSOM/RADAR DIST FAF TO MAP 8.33 THLD 8.33															
4. MIN. ALT FOOTO 3100, JUSOM 3100, HINIX/RADAR 2520, ZABGO/RADAR 2020															
8. MSA FROM: OAK VOR/DME 170-350 3800, 350-170 5100															
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-25R*	1080	1/2	680	1080	1/2	680	1080	1 1/2	680	1080	1 1/2	680			
S-25R	2000	3/4	1600	2000	1	1600	2000	3	1600	2000	3	1600			
CIRCLING	2000	1 1/4	1600	2000	1 1/2	1600	2000	3	1600	2000	3	1600			
NOTES: CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-25R CATS C/D. CHART NOTE: CIRCLING NA N OF RWY 7L-25R. CHART NOTE: DME AND RADAR REQUIRED.															
@ NA WHEN TOWER CLOSED. @ CAT A, B 1700-2, CAT C, D 1700-3															
CITY AND STATE LIVERMORE, CA															
ELEVATION: 400		TDZE: 400		FACILITY IDENTIFIER: I-LVK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC RWY 25R, ORIG 17 AUGUST 2017					SUP AMDT NONE				
AIRPORT NAME: LIVERMORE MUNI											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.
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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
COLORADO SPRINGS, CO	CITY OF COLORADO SPRINGS MUNI	17 AUGUST 2017	12A

TAKEOFF MINIMUMS:

RWY 17L, 17R STANDARD

RWY 13, STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 6400, OR ALTERNATIVELY WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2000 FT PRIOR TO DER.

RWY 31, STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 7000.

RWY 35L, STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 7000.

RWY 35R, STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 7000.

TEXTUAL DEPARTURE PROCEDURES:

RWY 13, 17L, 17R: CLIMBING LEFT TURN DIRECT BRK VOR/DME, THENCE ...

RWY 31: CLIMB HEADING 307.09 TO 7000, THEN CLIMBING RIGHT TURN DIRECT BRK VOR/DME, THENCE ...

RWY 35R: CLIMB HEADING 352.08 TO 7000, THEN CLIMBING RIGHT TURN DIRECT BRK VOR/DME, THENCE ...

RWY 35L: CLIMBING RIGHT TURN DIRECT BRK VOR/DME, THENCE ...

... CONTINUE CLIMB IN HOLDING PATTERN (HOLD NW, LT, 159.00 INBOUND) TO CROSS BRK VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 13, RADAR ANTENNA 4979 FT FROM DER, 1640 FT LEFT OF CENTERLINE, 107 FT AGL/6292 FT MSL.

NOTE: RWY 17L, RWY EDGE LIGHT (REIL) 25 FT FROM DER, 115 FT LEFT AND RIGHT OF CENTERLINE, 3 FT AGL/6104 FT MSL.

NOTE: RWY 35L, RWY EDGE LIGHT (REIL) 39 FT FROM DER, 115 FT RIGHT OF CENTERLINE, 2 FT AGL/6178 FT MSL. TREE 5898 FT FROM DER, 1773 FT RIGHT OF CENTERLINE, 50 FT AGL/6338 FT MSL.

CONTROLLING OBSTACLES:

RWY 31: 6779 FT MSL AAO 385208.44N/1044558.75W

RWY 35L: 6779 FT MSL AAO 385235.29N/1044141.20W

RWY 13: 6292 FT MSL ASR 384802.09N/1044042.44W

RWY 35R: 6779 FT MSL AAO 385235.29N/1044141.20W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 13, 17L, 17R, 31, 35L, 35R: 14310 FT MSL AAO 385020.60N/1050238.00W

RWY 35R: 6779 FT MSL AAO 385159.09N/1043924.87W

RWY 31: 6959 FT MSL AAO 385323.62N/1044337.59W

REMARKS:

30FT VEGETATION UTILIZED PER FPT.

VCOA NOT ESTABLISHED PER FPT AND ATC.

RWY 13 ROUTE OVERFLIES R-2602, HOWEVER AIRCRAFT ARE ABOVE RESTRICTED AIRSPACE.

FLIGHT INSPECTED BY: *Digitally signed by*
ROBIN CAUDLE **VICTOR B NASO**
Jun 07, 2017

OFFICE SYMBOL: **DATE:**
FICO 04/26/2017

DEVELOPED BY: *Digitally signed by*
KISSY MAXFIELD **KISSY MAXFIELD**
Apr 12, 2017

OFFICE SYMBOL: **DATE:**
AJV-5412 03/25/2017

APPROVED BY: *Digitally signed by*
GEORGE DAVIS **VICTOR B NASO**
Jun 07, 2017

OFFICE SYMBOL: **DATE:**
AJV-5410

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☒	☒	☒	☐	☐	☒

OTHER:

SDV, COS ATCT, COS APPCON, AMGR



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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
COLORADO SPRINGS, CO	CITY OF COLORADO SPRINGS MUNI	17 AUGUST 2017	12A

CHANGES - REASONS:

1. RWY 31 TEXTUAL DEPARTURE PROEDURE HEADING CHANGED FROM 306.09 TO 307.09, RWY 35R CHANGED FROM 351.08 TO 352.08-DUE TO AIRPORT MAGVAR CHANGED FROM 9E TO 8E.



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: 4.76 NM AFTER UTIMY INT/I-FNU 6.76 DME OR AT I-FNU 2.01 DME CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 2800 ON HEADING 280 AND ORL VORTAC R-355 TO PAOLA INT/ORL 15.60 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2800. ALTERNATE MA (DO NOT CHART): CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 2800 ON HEADING 280 AND OMN VORTAC R-204 (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD S, LT, 355.17 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW PAOLA INT/OMN 32.67 DME, RT, 023.51 INBOUND. CHART FAS OBST: 91 TREE 284657N/0811230W CHART R-2934. CHART CIRCLING ICON. CHART OMN R-170 AT UXFIM CHART PLANVIEW NOTE: RNAV 1-GPS OR RADAR REQUIRED. CHART A-294										
SMYRA		VOFOS (TF) (FB) (RNP 2.00)			186.97 / 8.26				2000												
VOFOS (IAF)		UXFIM (NOPT) (TF) (FB) (RNP 1.00)			191.20 / 5.15				1600												
GACNO (IAF)		UXFIM (NOPT) (TF) (FB) (RNP 1.00)			357.31 / 6.62				1600												
UXFIM/I-FNU 13.22 DME (IF/IAF)		UTIMY INT/I-FNU 6.76 DME			274.90 / 6.46 (I-FNU)				1600												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E UXFIM, RT, 274.90 INBOUND, 1600 FT. IN LIEU OF PT (IAF) 3. FAC: <u>274.90</u> FAF: <u>UTIMY INT/I-FNU 6.76 DME</u> DIST FAF TO MAP: <u>4.76</u> THLD: <u>4.76</u> 4. MIN. ALT: UXFIM 1600, UTIMY 1600, PESIY/I-FNU 3.41 DME 480* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 1057 6. MIN GS INCPT: <u>1600</u> GS ALT AT: <u>UTIMY 1600</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9</u> 8. MSA FROM: ORL VORTAC 3000																		MAG VAR: 5W		EPOCH YEAR: 2000	
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 27R	245	1/2	200	245	1/2	200	245	1/2	200	245	1/2	200									
S-LOC 27R	480	1/2	435	480	1/2	435	480	3/4	435	480	3/4	435									
CIRCLING	580	1	525	580	1	525	600	1 1/2	545	640	2	585									
PESIY FIX MINIMUMS																					
S-LOC 27R	400	1/2	355	400	1/2	355	400	5/8	355	400	5/8	355									
CIRCLING	580	1	525	580	1	525	600	1 1/2	545	640	2	585									
NOTES: CHART SPEED ICON IN PLANVIEW AT SMYRA : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT GACNO : MAX 210 KIAS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SMYRA ON V3-533 NORTHBOUND. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																#@ NA WHEN CONTROL TOWER CLOSED.					
CITY AND STATE				ELEVATION: 55 TDZE: 45				FACILITY IDENTIFIER: I-FNU				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
ORLANDO, FL				AIRPORT NAME:								ILS OR LOC RWY 27R, AMDT 4				AMDT: 3					
				ORLANDO SANFORD INTL								17 AUGUST 2017				DATED 05/30/2013					

QUALITY
 10
 CHECKED

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.):
TO PAOLA INT/OMN 32.67 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2800.

NOTES, (CONT.):
*LOC ONLY
CHART NOTE: FOR INOPERATIVE ALS, INCREASE PESIY FIX MINIMUMS CAT C/D VISIBILITY TO 1 SM.

CITY AND STATE
ORLANDO, FL

ELEVATION: 55 TDZE: 45
AIRPORT NAME:
ORLANDO SANFORD INTL

FACILITY
IDENTIFIER:
I-FNU

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 27R, AMDT 4
17 AUGUST 2017

SUP:
AMDT: 3
DATED: 05/30/2013

QUALITY
10
CHECKED

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							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		LPV: DA LNAV/VNAV: DA LNAV: RW27R CLIMB TO 2000 DIRECT UGMAH AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 094.78 INBOUND. CHART FAS OBST: 165 POLE 284717N/0811253W 234 AAO 284607N/0810759W CHART R-2934. DISTANCE TO THLD FROM 200 HAT: 0.50 NM. WAAS CHANNEL # 63209 REFERENCE PATH ID: W27A CHART CIRCLING ICON. CHART A-294 LTP HAE: -18.5 M												
SMYRA				VOFOS (TF) (FB) (RNP 2.00)				186.97 / 8.26				2000														
VOFOS (IAF)				UXFIM (NOPT) (TF) (FB) (RNP 1.00)				191.20 / 5.15				1600														
GACNO (IAF)				UXFIM (NOPT) (TF) (FB) (RNP 1.00)				357.31 / 6.62				1600														
UXFIM (IF/IAF)				UTIMY (TF) (FB) (RNP 1.00)				275.00 / 6.46				1600														
UTIMY (FAF)				RW27R (MAP) (TF) (FO) (RNP 0.30)				274.94 / 4.76																		
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E UXFIM, RT, 275.00 INBOUND, 1600 FT. IN LIEU OF PT (IAF) 3. FAC: 274.94 FAF: UTIMY DIST FAF TO MAP: 4.76 THLD: 4.76 4. MIN. ALT: UXFIM 1600, UTIMY 1600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: UTIMY 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.9 34:1 IS CLEAR 8. MSA FROM: RW27R 2800																	MAG VAR: 5W					EPOCH YEAR: 2000				
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD														
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
LPV DA	245	1/2	200	245	1/2	200	245	1/2	200	245	1/2	200														
LNAV/VNAV DA	425	7/8	380	425	7/8	380	425	7/8	380	425	7/8	380														
LNAV MDA	420	1/2	375	420	1/2	375	420	5/8	375	420	5/8	375														
CIRCLING	580	1	525	580	1	525	600	1 1/2	545	640	2	585														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 0C (32F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART SPEED ICON IN PLANVIEW AT GACNO : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT VOFOS : MAX 210 KIAS. (CONTINUED ON PAGE 2)																										
CITY AND STATE				ELEVATION: 55 TDZE: 45				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:										
ORLANDO, FL				AIRPORT NAME:				RNAV				RNAV (GPS) RWY 27R, AMDT 4				AMDT: 3A										
				ORLANDO SANFORD INTL								17 AUGUST 2017				DATED 05/28/2015										

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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW27R (MAP)	245 MSL (CA)	274.94	
245 MSL	UGMAH (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SMYRA ON V3-533 NORTHBOUND.

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

*LNAV ONLY

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/4 SM, INCREASE LNAV CAT C/D VISIBILITY TO 1 SM.

CITY AND STATE
ORLANDO, FL

ELEVATION: 55 TDZE: 45
AIRPORT NAME:
ORLANDO SANFORD INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 27R, AMDT 4
17 AUGUST 2017

SUP:
AMDT: 3A
DATED: 05/28/2015

QUALITY
10
CHECKED

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSFB
RUNWAY	RW27R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	284654.4395N
LTP/FTP LONGITUDE	0811317.8030W
LTP/FTP ELLIPSOIDAL HEIGHT	-00185
FPAP LATITUDE	284654.2345N
FPAP LONGITUDE	0811521.4385W
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>	 4860F808

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00093
FPAP ORTHOMETRIC HEIGHT	+00093

CITY AND STATE

ORLANDO, FL

ELEVATION: 55

TDZE: 45

AIRPORT NAME:

ORLANDO SANFORD INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 27R, AMDT 4

17 AUGUST 2017

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

3A

05/28/2015

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											
										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			MDA	VIS
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017																			
CITY AND STATE MUSCATINE, IA		ELEVATION: 547 TDZE: 547 AIRPORT NAME: MUSCATINE MUNI				FACILITY IDENTIFIER: DDD		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 6, ORIG-D, 03/11/2010						SUP AMDT ORIG-C DATE 04/13/2006					



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		LPV: DA LNAV/VNAV: DA LNAV: RW08 CLIMB TO 5700 DIRECT HOSOV AND ON TRACK 057.88 TO PETEZ AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5700. ADDITIONAL FLIGHT DATA: HOLD NE, LT, 237.88 INBOUND. CHART FAS OBST: 1552 TREE 462210N/1170133W DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.09 NM TO RW08* *LNAV ONLY. WAAS CHANNEL # 97600 REFERENCE PATH ID: W08A LTP HAE: 416.7 M							
PIYOL		WESEV (TF) (FB) (RNP 2.00)		287.20 / 7.50			7200									
WESEV		EVOYU (TF) (FO) (RNP 2.00)		287.10 / 18.57			5000									
BIDDY (IAF)		EVOYU (NOPT) (TF) (FB) (RNP 1.00)		142.44 / 10.88			5000									
EVOYU (IF/IAF)		MABIZ (TF) (FB) (RNP 1.00)		083.58 / 3.72			4000									
MABIZ		GIYES (TF) (FB) (RNP 1.00)		083.65 / 2.23			3400									
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W EVOYU, LT, 083.58 INBOUND, 5000 FT. IN LIEU OF PT (IAF) 3. FAC: 083.69 FAF: GIYES DIST FAF TO MAP: 6.05 THLD: 6.05 4. MIN. ALT: EVOYU 5000, MABIZ 4000, GIYES 3400, WERAS/2.80 NM TO RW08 2360* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3400 GS ALT AT: GIYES 3400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR 8. MSA FROM: RW08 7600																
										MAG VAR: 15E			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	1690	3/4	250	1690	3/4	250	1690	3/4	250	1690	3/4	250				
LNAV/VNAV DA	1736	1	296	1736	1	296	1736	1	296	1736	1	296				
LNAV MDA	1820	1	380	1820	1	380	1820	1 1/8	380	1820	1 1/8	380				
CIRCLING	2000	1	558	2000	1	558	2000	1 1/2	558	2160	2 1/4	718				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 34C (93F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT PIYOL ON V253 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT BIDDY ON V536 NORTHEAST BOUND.																
CITY AND STATE LEWISTON, ID		ELEVATION: 1442 TDZE: 1440 AIRPORT NAME: LEWISTON-NEZ PERCE COUNTY		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 8, AMDT 2B 17 AUGUST 2017						SUP:				
												AMDT: 2A				
												DATED 06/26/2014				

QUALITY
 22
 CHECKED

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
GIYES (FAF)	WERAS/2.80 NM TO RW08 (TF) (FB) (RNP 0.30)	083.69 / 3.25	
WERAS/2.80 NM TO RW08	RW08 (MAP) (TF) (FO) (RNP 0.30)	083.69 / 2.80	
RW08 (MAP)	1690 MSL (CA)	083.69	
1690 MSL	HOSOV (DF) (FB) (RNP 1.00)		
HOSOV	PETEZ (TF) (FO) (RNP 1.00)	057.88 / 14.65	5700

QUALITY
22
CHECKED

CITY AND STATE LEWISTON, ID	ELEVATION: 1442	TDZE: 1440	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 8, AMDT 2B 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 2A
	LEWISTON-NEZ PERCE COUNTY				DATED: 06/26/2014

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLWS
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	462225.5405N
LTP/FTP LONGITUDE	1170139.2815W
LTP/FTP ELLIPSOIDAL HEIGHT	+04167
FPAP LATITUDE	462211.9100N
FPAP LONGITUDE	1165932.1200W
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	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

2F6A5D68

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+04350
FPAP ORTHOMETRIC HEIGHT	+04350

QUALITY
22
CHECKED

CITY AND STATE

LEWISTON, ID

ELEVATION: 1442

TDZE: 1440

AIRPORT NAME:

LEWISTON-NEZ PERCE COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 8, AMDT 2B

17 AUGUST 2017

SUP:

AMDT:

2A

DATED:

06/26/2014

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		LPV: DA LNAV/VNAV: DA LNAV: RW26 CLIMB TO 7000 DIRECT GIYES AND ON TRACK 246.38 TO SEVER AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD W, LT, 071.46 INBOUND. CHART FAS OBST: 1688 TREE 462144N/1165702W CHART 2364 TREE 462000N/1164719W. CHART 2524 TREE 461946N/1164556W DISTANCE TO THLD FROM 200 HAT: 0.49 NM. CHART VDP AT 1.43 NM TO RW26* *LNAV ONLY. WAAS CHANNEL # 78012 REFERENCE PATH ID: W26A LTP HAE: 418.7 M						
MQG VOR/DME		HENVO (TF) (FO) (RNP 2.00)			091.90 / 10.59			6300								
PETEZ (IAF)		HENVO (NOPT) (TF) (FB) (RNP 1.00)			174.10 / 6.42			5600								
ZATIP (IAF)		SAKME (TF) (FB) (RNP 1.00)			312.78 / 3.50			6200								
SAKME		HENVO (NOPT) (TF) (FB) (RNP 1.00)			312.75 / 4.20			5600								
HENVO (IF/IAF)		FONDA (TF) (FB) (RNP 1.00)			264.08 / 3.23			5100		ADDITIONAL FLIGHT DATA: HOLD W, LT, 071.46 INBOUND. CHART FAS OBST: 1688 TREE 462144N/1165702W CHART 2364 TREE 462000N/1164719W. CHART 2524 TREE 461946N/1164556W DISTANCE TO THLD FROM 200 HAT: 0.49 NM. CHART VDP AT 1.43 NM TO RW26* *LNAV ONLY. WAAS CHANNEL # 78012 REFERENCE PATH ID: W26A LTP HAE: 418.7 M						
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD E HENVO, RT, 264.08 INBOUND, 5600 FT. IN LIEU OF PT (IAF)																
3. FAC: 263.98 FAF: JANIG DIST FAF TO MAP: 9.83 THLD: 9.83																
4. MIN. ALT: HENVO 5600, FONDA 5100, JANIG 4700, GAGGO/4.90 NM TO RW26 3060*																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 4700 GS ALT AT: JANIG 4700 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 51.4 34:1 IS CLEAR																
8. MSA FROM: RW26 7600										MAG VAR: 15E		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	1642	1/2	200	1642	1/2	200	1642	1/2	200	1642	1/2	200				
LNAV/VNAV DA	1962	1 1/4	520	1962	1 1/4	520	1962	1 1/4	520	1962	1 1/4	520				
LNAV MDA	1940	1/2	498	1940	1/2	498	1940	1	498	1940	1	498				
CIRCLING	2000	1	558	2000	1	558	2000	1 1/2	558	2160	2 1/4	718				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 47C (116F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MGQ VOR/DME ON V253 NORTHBOUND. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																
CITY AND STATE				ELEVATION: 1442 TDZE: 1442			FACILITY IDENTIFIER:			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		
LEWISTON, ID				AIRPORT NAME:			RNAV			RNAV (GPS) Y RWY 26, ORIG-B				AMDT: ORIG-A		
				LEWISTON-NEZ PERCE COUNTY						17 AUGUST 2017				DATED 06/03/2010		



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>
FONDA	JANIG (TF) (FB) (RNP 1.00)	264.03 / 2.77	4700
JANIG (FAF)	GAGGO/4.90 NM TO RW26 (TF) (FB) (RNP 0.30)	263.98 / 4.93	
GAGGO/4.90 NM TO RW26	RW26 (MAP) (TF) (FO) (RNP 0.30)	263.98 / 4.90	
RW26 (MAP)	1642 MSL (CA)	263.98	
1642 MSL	GIYES (DF) (FB) (RNP 1.00)		
GIYES	SEVER (TF) (FO) (RNP 1.00)	246.26 / 14.39	7000

QUALITY
22
CHECKED

CITY AND STATE LEWISTON, ID	ELEVATION: 1442 AIRPORT NAME: LEWISTON-NEZ PERCE COUNTY	TDZE: 1442 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 26, ORIG-B 17 AUGUST 2017	SUP:
					AMDT: ORIG-A
					DATED: 06/03/2010

**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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLWS
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	462215.7060N
LTP/FTP LONGITUDE	1170007.5190W
LTP/FTP ELLIPSOIDAL HEIGHT	+04187
FPAP LATITUDE	462229.3300N
FPAP LONGITUDE	1170214.6900W
THRESHOLD CROSSING HEIGHT (TCH)	00051.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

EDE6E667

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+04395
FPAP ORTHOMETRIC HEIGHT	+04395

QUALITY
22
CHECKED

CITY AND STATE

LEWISTON, ID

ELEVATION: 1442

TDZE: 1442

AIRPORT NAME:

LEWISTON-NEZ PERCE COUNTY

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 26, ORIG-B

17 AUGUST 2017

SUP:

AMDT: ORIG-A

DATED: 06/03/2010

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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: DA CLIMB TO 6000 ON TRACK 296.63 TO HERAG, LEFT TURN TO VESZY, LEFT TURN TO ISEKE AND ON TRACK 019.64 TO MQG VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 230 INBOUND. ROUTE TYPE QUALIFIER: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S # TCH 1488.6 MSL (DO NOT CHART) DISTANCE TO THLD FROM 336 HAT: 0.91NM					
ALW VOR/DME		LEZLE (TF) (FB) (RNP 2.00)		070.51 / 47.53				8700							
LEZLE (IAF)		FESEX (TF) (FB) (RNP 1.00)		072.78 / 21.85				6900							
FESEX (IAF)		OHAXI (RF) (FB) (RNP 1.00)		(6.30 NM RADIUS CCW AXYUT)/7.46				6200							
OXLEY (IAF)		OHAXI (TF) (FB) (RNP 1.00)		005.29 / 20.67				6500							
OHAXI		EZHUS (RF) (FB) (RNP 1.00)		(5.40 NM RADIUS CCW CMGAP)/4.91				5400							
(SEE FORM 8260-10)															
1. PT <u>NA</u> SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT UDAGE _____															
3. FAC: ** _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: UDAGE 5300, LIMBY 4900															
5. DIST TO THLD FROM OM: <u>7.42</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: <u>3900</u> GS ALT AT: <u>SEGHA 3900, ZEBEL 3468, ILVEC 2646</u> OM: _____ MM: _____ IM: _____															
7. GS ANGLE: <u>3.00</u> TCH: <u>47.0#</u> 34:1 IS CLEAR															
8. MSA FROM: RW30 7700										MAG VAR: 15E 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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	1778	1 1/8	336	1778	1 1/8	336	1778	1 1/8	336	1778	1 1/8	336			
NOTES: CHART NOTE: GPS AND RF REQUIRED. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 46C (114F). CHART NOTE: MISSED APPROACH REQUIRES RNP LESS THAN RNP 1.00. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 1442 TDZE: 1442				FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
LEWISTON, ID		AIRPORT NAME:				RNAV		RNAV (RNP) RWY 30, ORIG-C				AMDT: ORIG-B			
		LEWISTON-NEZ PERCE COUNTY						17 AUGUST 2017				DATED 06/30/2011			

QUALITY
22
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33					
TERMINAL ROUTES, (CONT.):					
FROM		TO	COURSE AND DISTANCE	ALTITUDE	
FERDI (IAF)	EZHUS (TF) (FB) (RNP 1.00)	313.45 / 11.04	6100		
EZHUS	UDAGE (RF) (FB) (RNP 1.00)	(4.80 NM RADIUS CCW AWWIJ)/5.40	5300		
OFINO (IAF)	UDAGE (TF) (FB) (RNP 1.00)	225.09 / 21.70	5300		
PUW VOR/DME (IAF)	ODTIF (TF) (FB) (RNP 1.00)	095.28 / 27.40	5300		
ODTIF	COSFU (RF) (FB) (RNP 1.00)	(6.00 NM RADIUS CW AYEXE)/6.29	5300		
JETTS (IAF)	COSFU (TF) (FB) (RNP 1.00)	155.77 / 32.45	6600		
COSFU	UDAGE (RF) (FB) (RNP 1.00)	(5.00 NM RADIUS CW CLYMN)/8.11	5300		
UDAGE (IF)	LIMBY (TF) (FB) (RNP 0.50)	248.87 / 4.00	4900		
LIMBY	SEGHA (TF) (FB) (RNP 0.30)	248.80 / 6.00	3900		
SEGHA (FAF)	**ZEBEL (TF) (FB) (RNP 0.30)	248.70 / 1.30			
ZEBEL	**ILVEC (RF) (FB) (RNP 0.30)	(3.00 NM RADIUS CW CEXEB)/2.52			
ILVEC	**RW30 (MAP) (TF) (FB) (RNP 0.30)	296.68 / 3.60			
RW30 (MAP)	HERAG (TF) (FB) (RNP 0.30)	296.63 / 0.82			
HERAG	VESZY (RF) (FB) (RNP 0.50)	(6.00 NM RADIUS CCW XIWVA)/4.18			
VESZY	ISEKE (RF) (FB) (RNP 1.00)	(6.00 NM RADIUS CCW XIWVA)/24.82			
ISEKE	MQG VOR/DME (TF) (FO) (RNP 1.00)	019.64 / 9.59	6000		
NOTES, (CONT.):					
CHART PLANVIEW NOTE: AT ODTIF, COSFU, EZHUS, OHAXI, AND FESEX: MAX 210 KIAS.					
CHART PLANVIEW NOTE: AT ALW, OXLEY, FERDI, OFINO, PUW, JETS: (RNP 0.30).					
CITY AND STATE	ELEVATION: 1442	TDZE: 1442	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
LEWISTON, ID	AIRPORT NAME:		RNAV	RNAV (RNP) RWY 30, ORIG-C	AMDT: ORIG-B
	LEWISTON-NEZ PERCE COUNTY			17 AUGUST 2017	DATED: 06/30/2011

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		RNP: DA CLIMB TO 7000 ON TRACK 263.81 TO CENEV AND ON TRACK 246.42 TO SEVER AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD W, LT, 071.46 INBOUND. DISTANCE TO THLD FROM 364 HAT: 1.01 NM. ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S ROUTE TYPE: A, H #TCH 1493.3 MSL (DO NOT CHART)						
FERDI (IAF)		NEKTE (TF) (FB) (RNP 1.00)			294.09 / 11.91			6100								
NEKTE		HORET (TF) (FB) (RNP 1.00)			293.92 / 6.50			5300								
OFINO (IAF)		HORET (TF) (FB) (RNP 1.00)			229.44 / 25.20			5300								
HORET (IF)		CUBLU (TF) (FB) (RNP 0.50)			264.02 / 6.28			3400								
CUBLU (FAF)		RW26 (MAP) (TF) (FO) (RNP 0.30)			263.91 / 5.92											
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HORET 3. FAC: <u>263.91</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: HORET 5300 5. DIST TO THLD FROM OM: <u>5.92</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>3400</u> GS ALT AT: CUBLU 3400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>51.4#</u> 34:1 IS CLEAR 8. MSA FROM: RW26 7600																
										MAG VAR: 15E 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	
AUTHORIZATION REQUIRED																
RNP 0.20 DA	1806	3/4	364	1806	3/4	364	1806	3/4	364	1806	3/4	364				
RNP 0.30 DA	2003	1 1/2	561	2003	1 1/2	561	2003	1 1/2	561	2003	1 1/2	561				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (3F) OR ABOVE 46C (115F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: AT FERDI, OFINO: (RNP 0.50). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FERDI ON V520 SOUTHWEST BOUND. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 1442 TDZE: 1442			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:			
LEWISTON, ID		AIRPORT NAME:						RNAV (RNP) Z RWY 26, ORIG-B					AMDT: ORIG-A			
		LEWISTON-NEZ PERCE COUNTY						17 AUGUST 2017					DATED 06/30/2011			

QUALITY
22
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33																
TERMINAL ROUTES, (CONT.):																
<table><tr><td>FROM</td><td>TO</td><td>COURSE AND DISTANCE</td><td>ALTITUDE</td></tr><tr><td>RW26 (MAP)</td><td>CENEV (TF) (FB) (RNP 1.00)</td><td>263.81/7.00</td><td></td></tr><tr><td>CENEV</td><td>SEVER (TF) (FO) (RNP 1.00)</td><td>246.42 / 14.52</td><td>7000</td></tr></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE	RW26 (MAP)	CENEV (TF) (FB) (RNP 1.00)	263.81/7.00		CENEV	SEVER (TF) (FO) (RNP 1.00)	246.42 / 14.52	7000
FROM	TO	COURSE AND DISTANCE	ALTITUDE													
RW26 (MAP)	CENEV (TF) (FB) (RNP 1.00)	263.81/7.00														
CENEV	SEVER (TF) (FO) (RNP 1.00)	246.42 / 14.52	7000													
NOTES, (CONT.): CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OFINO ON V187 NORTHEAST BOUND. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 VISIBILITY ALL CATS TO 1 7/8 MILES. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																
QUALITY 22 CHECKED																
CITY AND STATE	ELEVATION: 1442	TDZE: 1442	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:												
LEWISTON, ID	AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 26, ORIG-B												
	LEWISTON-NEZ PERCE COUNTY			17 AUGUST 2017												
			SUP:													
			AMDT:	ORIG-A												
			DATED:	06/30/2011												

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.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.68 NM AFTER EARLE LOM							
BVT VORTAC				EARLE LOM			173.13 / 7.82				2300		CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 2300 VIA HEADING 360 AND BVT VORTAC R-120 TO BVT VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): ; OR WHEN DIRECTED BY ATC, CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 2300 DIRECT LA LOM AND HOLD W, LT, 100.09 INBOUND (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD NW, RT, 143.00 INBOUND. CHART FAS OBST: 798 TREE 402545N/0870039W							
OKK VORTAC				EARLE LOM			267.72 / 45.91				2600									
POTES INT				EARLE LOM			023.97 / 6.71				2300									
VAGES INT (IAF)				EARLE LOM (NOPT)			150.00 / 1.52 (HDG) & 100.09 / 7.65 (I-LAF)				2300									
1. PT <u>R</u> SIDE OF COURSE <u>280.09</u> OUTBOUND <u>2300</u> FT WITHIN <u>10</u> MILES OF <u>EARLE LOM</u> (IAF)														MAG VAR: 1W EPOCH YEAR: 1985						
2. _____																				
3. FAC: <u>100.09</u> FAF: <u>EARLE LOM</u> DIST FAF TO MAP: <u>4.68</u> THLD: <u>4.68</u>																				
4. MIN. ALT: <u>EARLE LOM 2300</u>																				
5. DIST TO THLD FROM OM: <u>4.68</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1008</u>																				
6. MIN GS INCPT: <u>2300</u> GS ALT AT: <u>-</u> OM: <u>2165</u> MM: <u>-</u> IM: <u>-</u>																				
7. GS ANGLE: <u>3.00</u> TCH: <u>53.0</u>																				
8. MSA FROM: <u>LA LOM 2600</u>																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: 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					
S-ILS 10	801	1/2	200	801	1/2	200	801	1/2	200	801	1/2	200								
S-LOC 10	1060	1/2	459	1060	1/2	459	1060	3/4	459	1060	1	459								
CIRCLING	1160	1	554	1160	1	554	1160	1 1/2	554	1320	2 1/4	714								
NOTES: CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: CIRCLING RWY 23 NA AT NIGHT.																				
# NA WHEN CONTROL TOWER CLOSED. # CAT D 800-2 1/4																				
CITY AND STATE LAFAYETTE, IN			ELEVATION: 606 TDZE: 601 AIRPORT NAME: PURDUE UNIVERSITY				FACILITY IDENTIFIER: I-LAF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 10, AMDT 11B 17 AUGUST 2017				SUP: ILS RWY 10 AMDT: 11A DATED 10/13/2016							



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES														MISSED APPROACH												
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: I-PBX 0.17 DME												
OBSEW/I-PBX 13.16 DME/RADAR (IF/IAF)				PEAIR/I-PBX 7.04 DME				273.94 / 6.12 (I-PBX)				3700		CLIMB TO 4500 DIRECT CILOM AND HOLD.												
														ADDITIONAL FLIGHT DATA: HOLD W, RT, 093.78 INBOUND. CHART FAS OBST: 1819 TREE 373330N/0823221W CHART PLANVIEW NOTE: RNAV 1-GPS OR RADAR REQUIRED. CHART VDP AT 1.94 DME* DISTANCE VDP TO THLD 1.78 NM. *LOC ONLY. CHART CIRCLING ICON.												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 7W EPOCH YEAR: 2020												
2. HOLD E OBSEW, RT, 273.94 INBOUND, 4500 FT. IN LIEU OF PT (IAF)																										
3. FAC: 273.94 FAF: PEAIR/I-PBX 7.04 DME DIST FAF TO MAP: _____ THLD: 6.88																										
4. MIN. ALT: OBSEW 4500, PEAIR 3700, WOTAL/2.76 DME 2320*																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 959																										
6. MIN GS INCPT: 3700 GS ALT AT: PEAIR 3700 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 47.4																										
8. MSA FROM: _____																										
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A X																			
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
S-ILS 27	1663	1	200	1663	1	200	1663	1	200	1663	1	200														
S-LOC 27	2080	1	617	2080	1	617	2080	1 3/4	617	2080	1 3/4	617														
CIRCLING	2120	1	650	2160	1	690	2160	2	690	2460	3	990														
NOTES: CHART NOTE: DME AND RNAV 1- GPS REQUIRED. CHART NOTE: CIRCLING NA TO RWYS 2 AND 20.																										
CITY AND STATE PIKEVILLE, KY				ELEVATION: 1470 TDZE: 1463 AIRPORT NAME: PIKE COUNTY-HATCHER FIELD				FACILITY IDENTIFIER: I-PBX		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 2 17 AUGUST 2017					SUP: ILS OR LOC/DME RWY 27 AMDT: 1 DATED 10/22/2009											

QUALITY
18
CHECKED

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

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

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	184/30 CW 004/30 (NOPT)	184/15 CW 004/15	4700
	184/15 CW 004/15	OBSEW (IF/IAF) (FB)	4500
2.	004/30 CW 184/30	004/15 CW 184/15	4700
	004/15 CW 184/15	OBSEW (IF/IAF) (FO)	4500

QUALITY
18
CHECKED

CITY AND STATE

PIKEVILLE, KY

ELEVATION: 1470

TDZE: 1463

AIRPORT NAME:

PIKE COUNTY-HATCHER FIELD

FACILITY
IDENTIFIER:

I-PBX

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 27, AMDT 2

17 AUGUST 2017

SUP: ILS OR LOC/DME
RWY 27

AMDT: 1

DATED: 10/22/2009

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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			LPV: DA LNAV/VNAV: DA LNAV: RW09 CLIMB TO 4500 DIRECT OBSEW AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 274.10 INBOUND. CHART FAS OBST: 1700 TREE 373412N/0823506W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 1.50 NM TO RW09* *LNAV ONLY. WAAS CHANNEL # 61240 REFERENCE PATH ID: W09A CHART CIRCLING ICON. LTP HAE: 409.7 M									
CILOM (IF/IAF)			GYMUS (TF) (FB) (RNP 1.00)			093.78 / 6.23			3200												
GYMUS (FAF)			XUYBU/2.30 NM TO RW09 (TF) (FB) (RNP 0.30)			093.87 / 3.07															
XUYBU/2.30 NM TO RW09			RW09 (MAP) (TF) (FO) (RNP 0.30)			093.87 / 2.30															
RW09 (MAP)			1709 MSL (CA)			093.87			4500												
1709 MSL			OBSEW (DF) (FO) (RNP 1.00)																		
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W CILOM, RT, 093.78 INBOUND, 4500 FT. IN LIEU OF PT (IAF) 3. FAC: 093.87 FAF: GYMUS DIST FAF TO MAP: 5.37 THLD: 5.37 4. MIN. ALT: CILOM 4500, GYMUS 3200, XUYBU/2.30 NM TO RW09 2220* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3200 GS ALT AT: GYMUS 3200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: _____																		MAG VAR: 7W		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	1709	1	250	1709	1	250	1709	1	250	1709	1	250									
LNAV/VNAV DA	1891	1 1/2	432	1891	1 1/2	432	1891	1 1/2	432	1891	1 1/2	432									
LNAV MDA	1960	1	501	1960	1	501	1960	1 3/8	501	1960	1 3/8	501									
CIRCLING	2120	1	650	2160	1	690	2160	2	690	2460	3	990									
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (0F) OR ABOVE 54C (130F). @ CAT D 1000-3 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 09 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: CIRCLING NA TO RWYS 2 AND 20.																					
CITY AND STATE PIKEVILLE, KY				ELEVATION: 1470 TDZE: 1459 AIRPORT NAME: PIKE COUNTY-HATCHER FIELD				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 2 17 AUGUST 2017				SUP: AMDT: 1 DATED 10/22/2009							



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.	004/30 CW 184/30 (NOPT) 004/15 CW 184/15	004/15 CW 184/15 CILOM (IF/IAF) (FO)	5500 4500
2.	184/30 CW 004/30 184/15 CW 004/15	184/15 CW 004/15 CILOM (IF/IAF) (FB)	5500 4500

QUALITY
18
CHECKED

CITY AND STATE
PIKEVILLE, KY

ELEVATION: 1470 TDZE: 1459
AIRPORT NAME:
PIKE COUNTY-HATCHER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 9, AMDT 2
17 AUGUST 2017

SUP:
AMDT: 1
DATED: 10/22/2009

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPBX
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	373337.3245N
LTP/FTP LONGITUDE	0823441.0770W
LTP/FTP ELLIPSOIDAL HEIGHT	+04097
FPAP LATITUDE	373342.1100N
FPAP LONGITUDE	0823249.1800W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 D6E1D62D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+04416
FPAP ORTHOMETRIC HEIGHT	+04416

QUALITY
18
CHECKED

CITY AND STATE PIKEVILLE, KY	ELEVATION: 1470 AIRPORT NAME: PIKE COUNTY-HATCHER FIELD	TDZE: 1459 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1
				DATED: 10/22/2009

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		LPV: DA LNAV/VNAV: DA LNAV: RW27 CLIMB TO 4500 DIRECT CILOM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 093.78 INBOUND. FAS OBST: 1819 AAO 373327N/0822839W DISTANCE TO THLD FROM 200 HAT: 0.68 NM. CHART VDP AT 1.90 NM TO RW27* *LNAV ONLY. WAAS CHANNEL # 86540 REFERENCE PATH ID: W27A CHART CIRCLING ICON. LTP HAE: 414.1 M									
OBSEW (IF/IAF)		PEAIR (TF) (FB) (RNP 1.00)			274.10 / 6.12				3700											
PEAIR (FAF)		RW27 (MAP) (TF) (FO) (RNP 0.30)			274.01 / 6.88															
RW27 (MAP)		1663 MSL (CA)			274.01				4500											
1663 MSL		CILOM (DF) (FO) (RNP 1.00)																		
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E OBSEW, RT, 274.10 INBOUND, 4500 FT. IN LIEU OF PT (IAF) 3. FAC: 274.01 FAF: PEAIR DIST FAF TO MAP: 6.88 THLD: 6.88 4. MIN. ALT: OBSEW 4500, PEAIR 3700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3700 GS ALT AT: PEAIR 3700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 47.4 34:1 IS CLEAR 8. MSA FROM: _____																	MAG VAR: 7W		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	1663	1	200	1663	1	200	1663	1	200	1663	1	200								
LNAV/VNAV DA	2175	2 1/2	712	2175	2 1/2	712	2175	2 1/2	712	2175	2 1/2	712								
LNAV MDA	2120	1	657	2120	1	657	2120	1 3/4	657	2120	1 3/4	657								
CIRCLING	2120	1	650	2160	1	690	2160	2	690	2460	3	990								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (0F) OR ABOVE 54C (130F). @ CAT D 1000-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING NA TO RWYS 2 AND 20.																				
CITY AND STATE		ELEVATION: 1470 TDZE: 1463			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:								
PIKEVILLE, KY		AIRPORT NAME:					RNAV (GPS) RWY 27, AMDT 2					AMDT: 1								
		PIKE COUNTY-HATCHER FIELD					17 AUGUST 2017					DATED 10/22/2009								

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.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	184/30 CW 004/30 (NOPT) 184/15 CW 004/15	184/15 CW 004/15 OBSEW (IF/IAF) (FB)	4700 4500
2.	004/30 CW 184/30 004/15 CW 184/15	004/15 CW 184/15 OBSEW (IF/IAF) (FO)	4700 4500

QUALITY
18
CHECKED

CITY AND STATE
PIKEVILLE, KY

ELEVATION: 1470 **TDZE: 1463**
AIRPORT NAME:
PIKE COUNTY-HATCHER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 27, AMDT 2
17 AUGUST 2017

SUP:
AMDT: **1**
DATED: **10/22/2009**

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPBX
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	373339.7925N
LTP/FTP LONGITUDE	0823343.3345W
LTP/FTP ELLIPSOIDAL HEIGHT	+04141
FPAP LATITUDE	373334.9950N
FPAP LONGITUDE	0823535.2305W
THRESHOLD CROSSING HEIGHT (TCH)	00047.4
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
 <u>CRC REMAINDER</u>	 9DC797A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+04459
FPAP ORTHOMETRIC HEIGHT	+04459

QUALITY
18
CHECKED

CITY AND STATE PIKEVILLE, KY	ELEVATION: 1470 AIRPORT NAME: PIKE COUNTY-HATCHER FIELD	TDZE: 1463 RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1
				DATED: 10/22/2009

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.54 NM AFTER RILOC INT/I-RSR 5.44 DME						
GDM VOR/DME		RILOC INT/I-RSR 5.44 DME		187.28 / 16.46 (GDM R-187)				2900		CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND GDM VOR/DME R-167 TO LAWRN/GDM 23.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ALTERNATE MA (DO NOT CHART): CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 160 AND PUT VOR/DME R-030 TO TROY INT/PUT 7.81 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 347.26 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE TROY INT, LT, 210.28 INBOUND. CHART IN PLANVIEW: TROY INT/PUT 7.81 DME. FAS OBST: 1243 AAO 421637N/0715855W CHART VDP AT 1.36 DME* DISTANCE VDP TO THLD 1.45 NM. *LOC ONLY. CHART CIRCLING ICON.						
SPENO INT/I-RSR 11.65 DME (IF/IAF)		RILOC INT/I-RSR 5.44 DME (NOPT)		108.84 / 6.21 (I-RSR)				2800								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 15W EPOCH YEAR: 1995						
2. HOLD W RILOC, LT, 108.84 INBOUND, 2800 FT. IN LIEU OF PT (IAF)																
3. FAC: 108.84 FAF: RILOC INT/I-RSR 5.44 DME DIST FAF TO MAP: 5.54 THLD: 5.54																
4. MIN. ALT: SPENO 2800, RILOC 2800																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 1057																
6. MIN GS INCPT: 2800 GS ALT AT: RILOC 2800 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 55.1																
8. MSA FROM: GDM VOR/DME 060-330 3300, 330-060 4400																
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 11		1180	1800	200	1180	1800	200	1180	1800	200	1180	1800	200			
S-LOC 11		1500	2400	520	1500	2400	520	1500	5500	520	1500	5500	520			
CIRCLING		1560	1	551	1720	1	711	2000	3	991	2000	3	991			
NOTES: CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPENO ON V-229 SOUTHWEST BOUND AND ON V270 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GDM VOR/DME RADIALS 179 CW 246. WESTBOUND. (CONTINUED ON PAGE 2)																
CITY AND STATE WORCESTER, MA		ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL		FACILITY IDENTIFIER: I-RSR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 11, AMDT 24, 08/17/2017						SUP: AMDT: 23C 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.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 11 CAT C/D VISIBILITY TO 1 3/8 SM.

QUALITY
16
CHECKED

CITY AND STATE WORCESTER, MA	ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL	FACILITY IDENTIFIER: I-RSR	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 11, AMDT 24, 08/17/2017	SUP:
				AMDT: 23C
				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.

QUALITY
16
CHECKED

CITY AND STATE
WORCESTER, MA

ELEVATION: 1009 TDZE: 980
AIRPORT NAME:
WORCESTER RGNL

FACILITY
IDENTIFIER:
I-RSR

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 11, AMDT 24, 08/17/2017

SUP:
AMDT: 23C
DATED: 12/11/2014

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	LPV: DA LNAV/VNAV: DA LNAV: RW11 CLIMB TO 2700 DIRECT SPAGS AND HOLD, WHEN AUTHORIZED BY ATC, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD E, LT, 288.94 INBOUND. CHART FAS OBST: 1255 TREE 421644N/0715516W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.52 NM TO RW11* *LNAV ONLY. WAAS CHANNEL # 77999 REFERENCE PATH ID: W11A CHART CIRCLING ICON. LTP HAE: 270.1 M											
BAF VORTAC (IAF)	SPENO (TF) (FB) (RNP 1.00)	089.02 / 26.04	3000												
WITNY (IAF)	SPENO (TF) (FB) (RNP 1.00)	029.88 / 14.32	3000												
SPENO (IF)	RILOC (TF) (FB) (RNP 1.00)	108.66 / 6.21	2800												
RILOC (FAF)	RW11 (MAP) (TF) (FO) (RNP 0.30)	108.76 / 5.54													
RW11 (MAP)	1180 MSL (CA)	108.76													
1180 MSL	SPAGS (DF) (FO) (RNP 1.00)		2700												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT SPENO 3. FAC: <u>108.76</u> FAF: <u>RILOC</u> DIST FAF TO MAP: <u>5.54</u> THLD: <u>5.54</u> 4. MIN. ALT: SPENO 3000, RILOC 2800 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2800</u> GS ALT AT: <u>RILOC 2800</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS CLEAR 8. MSA FROM: RW11 3300				MAG VAR: 15W 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	1180	4000	200	1180	4000	200	1180	4000	200	1180	4000	200			
LNAV/VNAV DA	1565	1 1/2	585	1565	1 1/2	585	1565	1 1/2	585	1565	1 1/2	585			
LNAV MDA	1520	4000	540	1520	4000	540	1520	5500	540	1520	5500	540			
CIRCLING	1560	1	551	1720	1	711	2000	3	991	2000	3	991			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). @ CAT C, D 1000-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BAF VORTAC AIRWAY RADIALS 066 CW 121. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WITNY ON V229 SOUTHWEST BOUND. (CONTINUED ON PAGE 2)															
CITY AND STATE WORCESTER, MA		ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 2, 08/17/2017				SUP: AMDT: 1A DATED 06/26/2014					

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.

NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPENO ON V229 SOUTHWEST BOUND AND V270 WESTBOUND.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV CATS A/B.

CITY AND STATE WORCESTER, MA	ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 2, 08/17/2017	SUP:
				AMDT: 1A
				DATED: 06/26/2014



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.

CITY AND STATE
WORCESTER, MA

ELEVATION: 1009 TDZE: 980
AIRPORT NAME:
WORCESTER RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 11, AMDT 2, 08/17/2017

SUP:
AMDT: 1A
DATED: 06/26/2014

QUALITY
10
CHECKED

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KORH
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	421602.3865N
LTP/FTP LONGITUDE	0715326.8655W
LTP/FTP ELLIPSOIDAL HEIGHT	+02701
FPAP LATITUDE	421556.4000N
FPAP LONGITUDE	0715127.1400W
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	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

432E44D0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02987
FPAP ORTHOMETRIC HEIGHT	+02987

CITY AND STATE

WORCESTER, MA

ELEVATION: 1009

TDZE: 980

AIRPORT NAME:

WORCESTER RGNL

FACILITY
IDENTIFIER:
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 11, AMDT 2, 08/17/2017

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

1A

06/26/2014

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		LPV: DA LNAV/VNAV: DA LNAV: RW29 CLIMB TO 3000 DIRECT RILOC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 108.76 INBOUND. CHART FAS OBST: 1100 CTRL TWR 421545N/0715214W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.00 NM TO RW29* *LNAV ONLY. WAAS CHANNEL # 82299 REFERENCE PATH ID: W29A CHART CIRCLING ICON. LTP HAE: 272.5 M									
WHYBE (IF/IAF)		DEWEE (TF) (FB) (RNP 1.00)		284.85 / 8.88				3000											
DEWEE (IF)		SPAGS (TF) (FB) (RNP 1.00)		289.03 / 5.92				2700											
SPAGS (FAF)		RW29 (MAP) (TF) (FO) (RNP 0.30)		288.94 / 5.21															
RW29 (MAP)		1190 MSL (CA)		288.94															
1190 MSL		RILOC (DF) (FO) (RNP 1.00)						3000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT DEWEE 3. FAC: 288.94 FAF: SPAGS DIST FAF TO MAP: 5.21 THLD: 5.21 4. MIN. ALT: DEWEE 3000, SPAGS 2700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2700 GS ALT AT: SPAGS 2700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 53.6 34:1 IS CLEAR 8. MSA FROM: RW29 3300																MAG VAR: 15W		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	1190	5000	200	1190	5000	200	1190	5000	200	1190	5000	200							
LNAV/VNAV DA	1261	5000	271	1261	5000	271	1261	5000	271	1261	5000	271							
LNAV MDA	1360	5500	370	1360	5500	370	1360	5500	370	1360	5500	370							
CIRCLING	1560	1	551	1720	1	711	2000	3	991	2000	3	991							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). @ CAT C, D 1000-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHYBE ON V1 EASTBOUND.																			
CITY AND STATE WORCESTER, MA		ELEVATION: 1009 TDZE: 990 AIRPORT NAME: WORCESTER RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29, AMDT 2, 08/17/2017				SUP:									
										AMDT: 1A									
										DATED 06/26/2014									

QUALITY
 10
 CHECKED

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

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

CITY AND STATE
WORCESTER, MA

ELEVATION: 1009 TDZE: 990
AIRPORT NAME:
WORCESTER RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 29, AMDT 2, 08/17/2017

SUP:
AMDT: 1A
DATED: 06/26/2014

QUALITY
10
CHECKED

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KORH
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	421557.7510N
LTP/FTP LONGITUDE	0715153.9650W
LTP/FTP ELLIPSOIDAL HEIGHT	+02725
FPAP LATITUDE	421603.7400N
FPAP LONGITUDE	0715353.7000W
THRESHOLD CROSSING HEIGHT (TCH)	00053.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 645A9424

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+03011
FPAP ORTHOMETRIC HEIGHT	+03011

CITY AND STATE

WORCESTER, MA

ELEVATION: 1009

TDZE: 990

AIRPORT NAME:

WORCESTER RGNL

FACILITY
IDENTIFIER:
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 29, AMDT 2, 08/17/2017

SUP:

AMDT: 1A

DATED: 06/26/2014

 QUALITY
10
CHECKED

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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		LPV: DA LNAV/VNAV: DA LNAV: RW15 CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT PIERR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 242 TREE 445512N/0670035W DISTANCE TO THLD FROM 265 HAT: 0.67 NM. WAAS CHANNEL # 72940 REFERENCE PATH ID: W15A CHART CIRCLING ICON. LTP HAE: -11.9 M											
MOWND				PIERR (TF) (FO) (RNP 2.00)				246.03 / 32.02				3000													
BARHA (IAF)				PIERR (NOPT) (TF) (FB) (RNP 1.00)				075.31 / 57.28				3000													
PIERR (IF/IAF)				KEAND (TF) (FB) (RNP 1.00)				145.36 / 5.40				1600													
KEAND (FAF)				CAXIX/2.30 NM TO RW15 (TF) (FB) (RNP 0.30)				145.44 / 2.30																	
CAXIX/2.30 NM TO RW15				RW15 (MAP) (TF) (FO) (RNP 0.30)				145.44 / 2.30																	
(SEE FORM 8260-10)																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW PIERR, RT, 145.36 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 145.44 FAF: KEAND DIST FAF TO MAP: 4.60 THLD: 4.60 4. MIN. ALT: PIERR 3000, KEAND 1600, CAXIX/2.30 NM TO RW15 840* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: KEAND 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.10 TCH: 53.0 34:1 IS NOT CLEAR 8. MSA FROM: RW15 2200																MAG VAR: 19W EPOCH YEAR: 1995									
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	309	1	265	309	1	265	309	1	265	309	1	265													
LNAV/VNAV DA	412	1 1/4	368	412	1 1/4	368	412	1 1/4	368	412	1 1/4	368													
LNAV MDA	500	1	456	500	1	456	500	1 3/8	456	500	1 3/8	456													
CIRCLING	580	1	535	580	1	535	580	1 1/2	535	720	2 1/4	675													
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (59F) OR ABOVE 47C (118F). CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																									
CITY AND STATE				ELEVATION: 45 TDZE: 44				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
EASTPORT, ME				AIRPORT NAME:								RNAV (GPS) RWY 15, AMDT 1				AMDT: ORIG-A									
				EASTPORT MUNI								17 AUGUST 2017				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.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW15 (MAP)	500 MSL (CA)	145.44	500
500 MSL	PIERR (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HANCOCK COUNTY-BAR HARBOR ALTIMETER SETTING: INCREASE LPV DA TO 462 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE LNAV/VNAV DA TO 565 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE ALL MDA 160 FEET AND LNAV VISIBILITY CAT C AND D 3/8 SM AND CIRCLING VISIBILITY CAT C AND D 1/2 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOWND ON V318 SOUTHEAST BOUND.
CHART NOTE: BARO-VNAV NA WHEN USING HANCOCK COUNTY-BAR HARBOR ALTIMETER SETTING.

QUALITY
6
CHECKED

CITY AND STATE
EASTPORT, ME

ELEVATION: 45 TDZE: 44
AIRPORT NAME:
EASTPORT MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 15, AMDT 1
17 AUGUST 2017

SUP:
AMDT: ORIG-A
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	KEPM
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	445448.1855N
LTP/FTP LONGITUDE	0670108.0245W
LTP/FTP ELLIPSOIDAL HEIGHT	-00119
FPAP LATITUDE	445355.1755N
FPAP LONGITUDE	0665927.2665W
THRESHOLD CROSSING HEIGHT (TCH)	00053.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 D315E2DA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00105
FPAP ORTHOMETRIC HEIGHT	+00105

QUALITY
6
CHECKED

CITY AND STATE EASTPORT, ME	ELEVATION: 45 AIRPORT NAME: EASTPORT MUNI	TDZE: 44 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				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		LPV: DA LNAV/VNAV: DA LNAV: RW33 CLIMB TO 3000 DIRECT PIERR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 145.36 INBOUND. CHART FAS OBST: 225 ANT 445433N/0665929W DISTANCE TO THLD FROM 333 HAT: 0.84 NM. CHART VDP AT 1.12 NM TO RW33* *LNAV ONLY. WAAS CHANNEL # 78340 REFERENCE PATH ID: W33A CHART CIRCLING ICON. LTP HAE: -8.7 M					
BARHA		OCESA (TF) (FB) (RNP 2.00)		098.00 / 59.99				3000							
OCESA (IAF)		LUBCI (TF) (FB) (RNP 1.00)		055.54 / 10.00				3000							
LUBCI (IF)		FEGUD (TF) (FB) (RNP 1.00)		325.63 / 5.75				1600							
FEGUD (FAF)		JEXAT/1.90 NM TO RW33 (TF) (FB) (RNP 0.30)		325.57 / 2.65											
JEXAT/1.90 NM TO RW33		RW33 (MAP) (TF) (FO) (RNP 0.30)		325.57 / 1.90											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT LUBCI 3. FAC: <u>325.57</u> FAF: <u>FEGUD</u> DIST FAF TO MAP: <u>4.55</u> THLD: <u>4.55</u> 4. MIN. ALT: <u>LUBCI 3000, FEGUD 1600, JEXAT/1.90 NM TO RW33 720*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1600</u> GS ALT AT: <u>FEGUD 1600</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.10</u> TCH: <u>57.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW33 2200</u>															
										MAG VAR: 19W			EPOCH YEAR: 1995		
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	378	1	333	378	1	333	378	1	333	378	1	333			
LNAV/VNAV DA	386	1	341	386	1	341	386	1	341	386	1	341			
LNAV MDA	480	1	435	480	1	435	480	1 1/4	435	480	1 1/4	435			
CIRCLING	580	1	535	580	1	535	580	1 1/2	535	720	2 1/4	675			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (59F) OR ABOVE 47C (116F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 45 TDZE: 45		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
EASTPORT, ME		AIRPORT NAME:		EASTPORT MUNI		RNAV (GPS) RWY 33, AMDT 1				AMDT: ORIG-A					
						17 AUGUST 2017				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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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW33 (MAP)	378 MSL (CA)	325.57	
378 MSL	PIERR (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HANCOCK COUNTY-BAR HARBOR ALTIMETER SETTING: INCREASE LPV DA TO 531 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE LNAV/VNAV DA TO 552 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE ALL MDA 160 FEET AND VISIBILITY CAT C AND D 1/2 SM.
CHART NOTE: VDP AND BARO-VNAV NA WHEN USING HANCOCK COUNTY-BAR HARBOR ALTIMETER SETTING.
CHART NOTE: CIRCLING RWY 15 NA AT NIGHT.

QUALITY
6
CHECKED

CITY AND STATE
EASTPORT, ME

ELEVATION: 45 TDZE: 45
AIRPORT NAME:
EASTPORT MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 33, AMDT 1
17 AUGUST 2017

SUP:
AMDT: ORIG-A
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	KEPM
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	445424.6795N
LTP/FTP LONGITUDE	0670023.3335W
LTP/FTP ELLIPSOIDAL HEIGHT	-00087
FPAP LATITUDE	445517.6760N
FPAP LONGITUDE	0670204.1205W
THRESHOLD CROSSING HEIGHT (TCH)	00057.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 AB0EB285

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00138
FPAP ORTHOMETRIC HEIGHT	+00138

QUALITY
6
CHECKED

CITY AND STATE EASTPORT, ME	ELEVATION: 45 AIRPORT NAME: EASTPORT MUNI	TDZE: 45 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				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.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LP: RW16 LNAV: RW16									
ZALSO (IAF)			ZOBON (NOPT) (TF) (FB) (RNP 1.00)			156.81 / 11.12			3100			CLIMB TO 4000 DIRECT SPODA AND HOLD.									
BLUOX			ZOBON (TF) (FO) (RNP 2.00)			288.57 / 35.41			3100												
STRAW			ZOBON (TF) (FO) (RNP 2.00)			339.33 / 41.36			3400												
BETRA			ZOBON (TF) (FO) (RNP 2.00)			049.97 / 25.10			3100												
ZOBON (IF/IAF) (SEE FORM 8260-10)			JAKET (TF) (FB) (RNP 1.00)			164.37 / 6.20			3100			ADDITIONAL FLIGHT DATA: HOLD S, RT, 344.47 INBOUND. CHART FAS OBST: 1355 TREE 473804N/0954727W CHART FAS OBST: 1359 SILO 473600N/0954651W CHART VDP AT 1.11 NM TO RW16. WAAS CHANNEL # 82226 REFERENCE PATH ID: W16A JAKET TO RW16: 3.00/40 LTP HAE: 358.8 M									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. HOLD N ZOBON, RT, 164.37 INBOUND, 3100 FT. IN LIEU OF PT (IAF)																					
3. FAC: 164.40 FAF: JAKET DIST FAF TO MAP: 5.63 THLD: 5.63																					
4. MIN. ALT: ZOBON 3100, JAKET 3100, YEDUN/2.50 NM TO RW16 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 CLEAR																					
8. MSA FROM: RW16 3300												MAG VAR: 3E			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						
LP MDA	1620	1	343	1620	1	343	1620	1	343		NA										
LNAV MDA	1640	1	363	1640	1	363	1640	1	363		NA										
CIRCLING	1860	1	581	1860	1	581	1860	1 1/2	581		NA										
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BLUOX ON V175 SOUTHEAST BOUND AND ON T383 SOUTH BOUND. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																					
CITY AND STATE FOSSTON, MN			ELEVATION: 1279 TDZE: 1277 AIRPORT NAME: FOSSTON MUNI			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, ORIG-C 17 AUGUST 2017						SUP: AMDT: ORIG-B DATED 05/28/2015						

QUALITY
10
CHECKED

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

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

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
JAKET (FAF)	YEDUN/2.50 NM TO RW16 (TF) (FB) (RNP 0.30)	164.40 / 3.13	
YEDUN/2.50 NM TO RW16	RW16 (MAP) (TF) (FO) (RNP 0.30)	164.40 / 2.50	
RW16 (MAP)	1620 MSL (CA)	164.40	
1620 MSL	SPODA (DF) (FO) (RNP 1.00)		4000

NOTES, (CONT.):

CHART NOTE: VDP NA WITH THIEF RIVER FALLS ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THIEF RIVER FALLS ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET AND INCREASE LP AND LNAV CAT C VISIBILITY 3/8 SM, CIRCLING CAT C VISIBILITY 1/2 SM.

CITY AND STATE

FOSSTON, MN

ELEVATION: 1279

TDZE: 1277

AIRPORT NAME:

FOSSTON MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, ORIG-C

17 AUGUST 2017

SUP:

AMDT: ORIG-B

DATED: 05/28/2015

QUALITY
10
CHECKED

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFSE
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	473551.0500N
LTP/FTP LONGITUDE	0954630.1150W
LTP/FTP ELLIPSOIDAL HEIGHT	+03588
FPAP LATITUDE	473424.1400N
FPAP LONGITUDE	0954601.4600W
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	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

51AD4680

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03860
FPAP ORTHOMETRIC HEIGHT	+03860

CITY AND STATE

FOSSTON, MN

ELEVATION: 1279

TDZE: 1277

AIRPORT NAME:

FOSSTON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, ORIG-C

17 AUGUST 2017

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

ORIG-B

05/28/2015

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LP: RW34 LNAV: RW34									
BETRA			SPODA (TF) (FO) (RNP 2.00)			105.38 / 26.85			3300			CLIMB TO 4000 DIRECT ZOBON AND HOLD.									
ZALSO			SPODA (TF) (FO) (RNP 2.00)			161.95 / 35.25			3300												
BLUOX			SPODA (TF) (FO) (RNP 2.00)			246.10 / 29.85			3300												
STRAW (IAF)			SPODA (NOPT) (TF) (FB) (RNP 1.00)			332.00 / 17.41			3300												
SPODA (IF/IAF)			SINIE (TF) (FB) (RNP 1.00)			344.47 / 6.20			3100			ADDITIONAL FLIGHT DATA: HOLD N, RT, 164.37 INBOUND. CHART FAS OBST: 1368 TREE 473332N/0954545W CHART FAS OBST: 1447 STACK 473454N/0954540W CHART VDP AT 1.06 NM TO RW34. WAAS CHANNEL # 90326 REFERENCE PATH ID: W34A SINIE TO RW34: 3.00/40 LTP HAE: 362.6 M									
(SEE FORM 8260-10)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. HOLD S SPODA, RT, 344.47 INBOUND, 3300 FT. IN LIEU OF PT (IAF)																					
3. FAC: 344.44 FAF: SINIE DIST FAF TO MAP: 5.59 THLD: 5.59																					
4. MIN. ALT: SPODA 3300, SINIE 3100, WEXEL/2.80 NM TO RW34 2200																					
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: RW34 3300																					
MAG VAR: 3E 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						
LP MDA	1620	1	341	1620	1	341	1620	1	341		NA										
LNAV MDA	1760	1	481	1760	1	481	1760	1 3/8	481		NA										
CIRCLING	1860	1	581	1860	1	581	1860	1 1/2	581		NA										
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BLUOX ON T-383 NORTHBOUND. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}). CHART NOTE: VDP NA WHEN USING THEIR RIVER FALLS ALTIMETER SETTING. (CONTINUED ON PAGE 2)																					
CITY AND STATE FOSSTON, MN				ELEVATION: 1279 TDZE: 1279 AIRPORT NAME: FOSSTON MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34, ORIG-C 17 AUGUST 2017				SUP: AMDT: ORIG-B DATED 06/26/2014							

QUALITY
10
CHECKED

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

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

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
SINIE (FAF)	WEXEL/2.80 NM TO RW34 (TF) (FB) (RNP 0.30)	344.44 / 2.79	
WEXEL/2.80 NM TO RW34	RW34 (MAP) (TF) (FO) (RNP 0.30)	344.44 / 2.80	
RW34 (MAP)	1620 MSL (CA)	344.44	
1620 MSL	ZOBON (DF) (FO) (RNP 1.00)		4000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THEIF RIVER FALLS ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET AND INCREASE LP AND LNAV CAT C VISIBILITY 3/8 SM, AND INCREASE CIRCLING CAT C VISIBILITY 1/2 SM.

CITY AND STATE

FOSSTON, MN

ELEVATION: 1279

TDZE: 1279

AIRPORT NAME:

FOSSTON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, ORIG-C

17 AUGUST 2017

SUP:

AMDT: **ORIG-B**

DATED: **06/26/2014**

QUALITY
10
CHECKED

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFSE
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	473517.3240N
LTP/FTP LONGITUDE	0954618.9905W
LTP/FTP ELLIPSOIDAL HEIGHT	+03626
FPAP LATITUDE	473644.2300N
FPAP LONGITUDE	0954647.6700W
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	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 E5260413

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03897
FPAP ORTHOMETRIC HEIGHT	+03897

CITY AND STATE

FOSSTON, MN

ELEVATION: 1279

TDZE: 1279

AIRPORT NAME:

FOSSTON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, ORIG-C
17 AUGUST 2017

SUP:

AMDT: **ORIG-B**DATED: **06/26/2014**
 QUALITY
10
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		LPV: DA LNAV/VNAV: DA LNAV: RW35 CLIMB TO 5500 DIRECT LINDR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5500. ADDITIONAL FLIGHT DATA: HOLD S, RT, 357.77 INBOUND. CHART FAS OBST: 1155 WT 455230N/0931654W DISTANCE TO THLD FROM 257 HAT: 0.68 NM. CHART VDP AT 1.16 NM TO RW35* *LNAV ONLY. WAAS CHANNEL # 90139 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 279.8 M					
LINDR		DANHI (TF) (FO) (RNP 2.00)		162.88 / 27.73				2900							
OLLEE (IAF)		DANHI (NOPT) (TF) (FB) (RNP 1.00)		052.61 / 18.28				2600							
LENCK (IAF)		DANHI (NOPT) (TF) (FB) (RNP 1.00)		309.74 / 20.82				2600							
DANHI (IF/IAF)		CAKUK (TF) (FB) (RNP 0.50)		351.74 / 5.00				2600							
CAKUK (FAF)		ARCED/1.70 NM TO RW35 (TF) (FB) (RNP 0.30)		351.73 / 3.17											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S DANHI, RT, 351.74 INBOUND, 2600 FT. IN LIEU OF PT (IAF) 3. FAC: 351.73 FAF: CAKUK DIST FAF TO MAP: 4.87 THLD: 4.87 4. MIN. ALT: DANHI 2600, CAKUK 2600, ARCED/1.70 NM TO RW35 1580* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2600 GS ALT AT: CAKUK 2600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: RW35 2800															
										MAG VAR: 0W			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	1267	1	257	1267	1	257	1267	1	257	1267	1	257			
LNAV/VNAV DA	1316	1	306	1316	1	306	1316	1	306	1316	1	306			
LNAV MDA	1420	1	410	1420	1	410	1420	1 1/8	410	1420	1 1/8	410			
CIRCLING	1480	1	470	1500	1	490	1700	2	690	1700	2 1/4	690			
NOTES: CHART NOTE: CIRCLING TO RWY 17 NA AT NIGHT. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING HINCKLEY ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 1010 TDZE: 1010				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
MORA, MN		AIRPORT NAME: MORA MUNI						RNAV (GPS) RWY 35, ORIG-A 17 AUGUST 2017				AMDT: ORIG			
												DATED 10/15/2015			

QUALITY
 4
 CHECKED

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ARCED/1.70 NM TO RW35	RW35 (MAP) (TF) (FO) (RNP 0.30)	351.73 / 1.70	
RW35 (MAP)	1267 MSL (CA)	351.73	
1267 MSL	LINDR (DF) (FO) (RNP 1.00)		5500

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HINCKLEY ALTIMETER SETTING AND INCREASE ALL DA 43 FEET AND ALL MDA 60 FEET AND INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE AND LNAV AND CIRCLING CAT C AND D VISIBILITY 1/4 MILE.

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OLLEE ON T383 SOUTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LENCK ON V505 NORTHEAST BOUND.

QUALITY
4
CHECKED

CITY AND STATE

MORA, MN

ELEVATION: 1010

TDZE: 1010

AIRPORT NAME:

MORA MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 35, ORIG-A

17 AUGUST 2017

SUP:

AMDT: ORIG

DATED: 10/15/2015

**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	KJMR
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	455257.7435N
LTP/FTP LONGITUDE	0931611.3615W
LTP/FTP ELLIPSOIDAL HEIGHT	+02798
FPAP LATITUDE	455425.8910N
FPAP LONGITUDE	0931629.7375W
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	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 9C1054B4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03077
FPAP ORTHOMETRIC HEIGHT	+03077

QUALITY
4
CHECKED

CITY AND STATE MORA, MN	ELEVATION: 1010 AIRPORT NAME: MORA MUNI	TDZE: 1010 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG-A 17 AUGUST 2017	SUP:
				AMDT: ORIG
				DATED: 10/15/2015

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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		LPV: DA LNAV/VNAV: DA LNAV: RW31 CLIMB TO 3300 DIRECT YONUR AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 130.92 INBOUND. CHART FAS OBST: 1549 TREE 465334N/0950410W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 0.97 NM TO RW31* *LNAV ONLY. WAAS CHANNEL # 82525 REFERENCE PATH ID: W31A CHART CIRCLING ICON. LTP HAE: 412.6 M											
CUCAC (IAF)				ZUMLU (NOPT) (TF) (FB) (RNP 1.00)				298.96 / 21.15				3200													
RECOS (IAF)				ZUMLU (NOPT) (TF) (FB) (RNP 1.00)				224.70 / 18.77				3200													
WATAM (IAF)				ZUMLU (NOPT) (TF) (FB) (RNP 1.00)				027.93 / 22.83				3200													
ZUMLU (IF/IAF)				HIBEP (TF) (FB) (RNP 1.00)				311.22 / 6.70				3200													
HIBEP (FAF)				WUTED/1.60 NM TO RW31 (TF) (FB) (RNP 0.30)				311.14 / 3.75																	
(SEE FORM 8260-10)																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE ZUMLU, RT, 311.22 INBOUND, 3200 FT. IN LIEU OF PT (IAF) 3. FAC: 311.14 FAF: HIBEP DIST FAF TO MAP: 5.35 THLD: 5.35 4. MIN. ALT: ZUMLU 3200, HIBEP 3200, WUTED/1.60 NM TO RW31 2000* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3200 GS ALT AT: HIBEP 3200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.7 34:1 IS CLEAR 8. MSA FROM: RW31 3400																MAG VAR: 4E					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	1644	1/2	200	1644	1/2	200	1644	1/2	200	1644	1/2	200													
LNAV/VNAV DA	1731	1/2	287	1731	1/2	287	1731	1/2	287	1731	1/2	287													
LNAV MDA	1800	1/2	356	1800	1/2	356	1800	5/8	356	1800	5/8	356													
CIRCLING	1900	1	455	1980	1	535	2000	1 1/2	555	2500	3	1055													
NOTES: CHART NOTE: CIRCLING TO RWY 18, 36 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 34C (93F). CHART NOTE: BARO-VNAV AND VDP NA WHEN USING WADENA ALTIMETER SETTING. CHART NOTE: RWY 18,36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																									
CITY AND STATE PARK RAPIDS, MN				ELEVATION: 1445 TDZE: 1444 AIRPORT NAME: PARK RAPIDS MUNI-KONSHOK FIELD				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG-C 17 AUGUST 2017				SUP:											
														AMDT: ORIG-B											
														DATED 06/23/2016											



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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WUTED/1.60 NM TO RW31	RW31 (MAP) (TF) (FO) (RNP 0.30)	311.14 / 1.60	
RW31 (MAP)	1644 MSL (CA)	311.14	
1644 MSL	YONUR (DF) (FO) (RNP 1.00)		3300

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WATAM ON V175 SOUTHBOUND.

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WADENA ALTIMETER SETTING AND INCREASE ALL DA 75 FEET AND ALL MDA 80 FEET; INCREASE LNAV/VNAV ALL CATS AND CIRCLING CAT C VISIBILITY 1/4 MILE; INCREASE LNAV CAT C/D VISIBILITY 1/8 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 MILE AND LNAV CAT C/D VISIBILITY TO 1 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING WADENA ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 MILE AND LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 MILES.

QUALITY
4
CHECKED

CITY AND STATE
PARK RAPIDS, MN

ELEVATION: 1445 TDZE: 1444
AIRPORT NAME:
PARK RAPIDS MUNI-KONSHOK FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 31, ORIG-C
17 AUGUST 2017

SUP:
AMDT: ORIG-B
DATED: 06/23/2016

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPKD
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	465345.7835N
LTP/FTP LONGITUDE	0950356.0940W
LTP/FTP ELLIPSOIDAL HEIGHT	+04126
FPAP LATITUDE	465448.8260N
FPAP LONGITUDE	0950527.8825W
THRESHOLD CROSSING HEIGHT (TCH)	00052.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

FFAEABEB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04398
FPAP ORTHOMETRIC HEIGHT	+04398

QUALITY
4
CHECKED

CITY AND STATE

PARK RAPIDS, MN

ELEVATION: 1445

TDZE: 1444

AIRPORT NAME:

PARK RAPIDS MUNI-KONSHOK FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, ORIG-C

17 AUGUST 2017

SUP:

AMDT:

ORIG-B

DATED:

06/23/2016

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		MAP: SDY NDB								
ISN VOR/DME			SDY NDB			196.27 / 36.89			4300		CLIMB TO 4300 THEN LEFT TURN DIRECT SDY NDB AND HOLD.								
LAMBE INT/ISN 38.16 DME			SDY NDB			104.77 / 7.45			4300										
										ADDITIONAL FLIGHT DATA: HOLD N, LT, 164.73 INBOUND. FAS OBST: 2579 AAO 475209N/1041310W FAC CROSSES RWY C/L EXTENDED 4853 FT FROM THLD. CHART CIRCLING ICON.									
1. PT <u>R</u> SIDE OF COURSE <u>344.73</u> OUTBOUND <u>4100</u> FT WITHIN <u>10</u> MILES OF <u>SDY NDB</u> (IAF)										MAG VAR: 9E EPOCH YEAR: 2010									
2. _____																			
3. FAC <u>164.73</u> FAF _____ DIST FAF TO MAP _____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: SDY NDB 4300																			
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-19	2940	1 1/4	959	2940	1 1/2	959	2940	3	959	2940	3	959							
CIRCLING	2940	1 1/4	955	2940	1 1/2	955	2940	3	955	2940	3	955							
NOTES: CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: STRAIGHT-IN RWY 19 NA AT NIGHT, CIRCLING RWY 19 NA AT NIGHT, CIRCLING RWY 11, 29 NA AT NIGHT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ISN VOR/DME AIRWAY RADIALS 142 CW 251.																			
@ CAT A, B 1000-2, CAT C, D 1000-3																			
CITY AND STATE SIDNEY, MT		ELEVATION: 1985 AIRPORT NAME: SIDNEY-RICHLAND RGNL		TDZE: 1981		FACILITY IDENTIFIER: SDY		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 19, AMDT 5 17 AUGUST 2017				SUP AMDT DATE		4 07/29/2010					

QUALITY
10
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		LPV: DA LNAV/VNAV: DA LNAV: RW01 CLIMB TO 4600 DIRECT HAKET AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 194.81 INBOUND. CHART FAS OBST: 2191 ANT 474142N/1041310W 2399 AAO 473739N/1041718W DISTANCE TO THLD FROM 253 HAT: 0.66 NM. CHART VDP AT 1.39 NM TO RW01* *LNAV ONLY. WAAS CHANNEL # 62918 REFERENCE PATH ID: W01A CHART CIRCLING ICON. LTP HAE: 587 M					
EXADE (IAF)		CATUM (NOPT) (TF) (FB) (RNP 1.00)			104.41 / 10.40			4600							
CATUM (IF/IAF)		BOSPE (TF) (FB) (RNP 1.00)			014.64 / 5.74			3700							
BOSPE (FAF)		JUNEG/2.70 NM TO RW01 (TF) (FB) (RNP 0.30)			014.68 / 2.55										
JUNEG/2.70 NM TO RW01		RW01 (MAP) (TF) (FO) (RNP 0.30)			014.68 / 2.70										
RW01 (MAP)		2238 MSL (CA)			014.68			4600							
2238 MSL		HAKET (DF) (FO) (RNP 1.00)													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S CATUM, RT, 014.64 INBOUND, 4600 FT. IN LIEU OF PT (IAF) 3. FAC: 014.68 FAF: BOSPE DIST FAF TO MAP: 5.25 THLD: 5.25 4. MIN. ALT: CATUM 4600, BOSPE 3700, JUNEG/2.70 NM TO RW01 2880* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3700 GS ALT AT: BOSPE 3700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR 8. MSA FROM: RW01 4300															
											MAG VAR: 9E		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	2238	7/8	253	2238	7/8	253	2238	7/8	253	2238	7/8	253			
LNAV/VNAV DA	2419	1 1/2	434	2419	1 1/2	434	2419	1 1/2	434	2419	1 1/2	434			
LNAV MDA	2460	1	475	2460	1	475	2460	1 3/8	475	2460	1 3/8	475			
CIRCLING	2580	1	595	2660	1	675	2700	2	715	2840	2 3/4	855			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). @ CAT D 900-2 3/4 CHART NOTE: CIRCLING RWY 11, 19, AND 29 NA AT NIGHT. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EXADE ON V465 SOUTHWEST BOUND.															
CITY AND STATE			ELEVATION: 1985 TDZE: 1985			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		
SIDNEY, MT			AIRPORT NAME:						RNAV (GPS) RWY 1, AMDT 2				AMDT: 1		
			SIDNEY-RICHLAND RGNL						17 AUGUST 2017				DATED 07/29/2010		



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.

QUALITY
24
CHECKED

CITY AND STATE
SIDNEY, MT

ELEVATION: 1985 TDZE: 1985
AIRPORT NAME:
SIDNEY-RICHLAND RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 1, AMDT 2
17 AUGUST 2017

SUP:
AMDT: 1
DATED: 07/29/2010

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.

QUALITY
24
CHECKED

CITY AND STATE

SIDNEY, MT

ELEVATION: 1985

TDZE: 1985

AIRPORT NAME:

SIDNEY-RICHLAND RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 1, AMDT 2

17 AUGUST 2017

SUP:

AMDT: 1

DATED: 07/29/2010

**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	KSDY
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	474151.4825N
LTP/FTP LONGITUDE	1041203.9645W
LTP/FTP ELLIPSOIDAL HEIGHT	+05870
FPAP LATITUDE	474313.0000N
FPAP LONGITUDE	1041110.8800W
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	1008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 75A861BD

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+06043
FPAP ORTHOMETRIC HEIGHT	+06043

QUALITY
24
CHECKED

CITY AND STATE SIDNEY, MT	ELEVATION: 1985 TDZE: 1985 AIRPORT NAME: SIDNEY-RICHLAND RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1
				DATED: 07/29/2010

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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		LP: RW19 LNAV: RW19 CLIMB TO 4600 DIRECT CATUM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 014.64 INBOUND. CHART FAS OBST: 2235 TRMSN TWR 474414N/1041125W CHART FAS OBST: 2108 CRANE 474353N/1041029W WAAS CHANNEL # 86818 REFERENCE PATH ID: W19A CHART CIRCLING ICON. FANIX TO RW19: 3.00/41. LTP HAE: 586.4 M											
LAMBE				HAKET (TF) (FO) (RNP 2.00)				046.96 / 13.21				4600													
GINBE (IAF)				HAKET (NOPT) (TF) (FB) (RNP 1.00)				212.82 / 10.11				4600													
HAKET (IF/IAF)				FANIX (TF) (FB) (RNP 1.00)				194.81 / 6.03				3700													
FANIX (FAF)				OKAGE/2.50 NM TO RW19 (TF) (FB) (RNP 0.30)				194.77 / 2.77																	
OKAGE/2.50 NM TO RW19				RW19 (MAP) (TF) (FO) (RNP 0.30)				194.77 / 2.50																	
(SEE FORM 8260-10)																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N HAKET, RT, 194.81 INBOUND, 4600 FT. IN LIEU OF PT (IAF) 3. FAC: 194.77 FAF: FANIX DIST FAF TO MAP: 5.27 THLD: 5.27 4. MIN. ALT: HAKET 4600, FANIX 3700, OKAGE/2.50 NM TO RW19 2820 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: RW19 4300																MAG VAR: 9E 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										
LP MDA	2360	1	379	2360	1	379	2360	1	379	2360	1	379													
LNAV MDA	2500	1	519	2500	1	519	2500	1 3/8	519	2500	1 3/8	519													
CIRCLING	2580	1	595	2660	1	675	2700	2	715	2840	2 3/4	855													
NOTES: CHART NOTE: RWY 19 STRAIGHT-IN MINIMUMS NA AT NIGHT. CHART NOTE: CIRCLING RWY 11, 19, 29 NA AT NIGHT. CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																									
CITY AND STATE SIDNEY, MT				ELEVATION: 1985 TDZE: 1981 AIRPORT NAME: SIDNEY-RICHLAND RGNL				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 2 17 AUGUST 2017				SUP:									
																AMDT: 1									
																DATED 07/29/2010									



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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW19 (MAP)	2360 MSL (CA)	194.77	
2360 MSL	CATUM (DF) (FO) (RNP 1.00)		4600

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LAMBE ON V465 SOUTHWEST BOUND AND ARRIVALS AT GINBE ON V545 NORTHBOUND.

QUALITY
24
CHECKED

CITY AND STATE SIDNEY, MT	ELEVATION: 1985	TDZE: 1981	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 2 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 1
	SIDNEY-RICHLAND RGNL				DATED: 07/29/2010

**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	KSDY
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	474243.0210N
LTP/FTP LONGITUDE	1041130.4065W
LTP/FTP ELLIPSOIDAL HEIGHT	+05864
FPAP LATITUDE	474121.4985N
FPAP LONGITUDE	1041223.4795W
THRESHOLD CROSSING HEIGHT (TCH)	00041.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 4CDB89C3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+06037
FPAP ORTHOMETRIC HEIGHT	+06037

QUALITY
24
CHECKED

CITY AND STATE SIDNEY, MT	ELEVATION: 1985 AIRPORT NAME: SIDNEY-RICHLAND RGNL	TDZE: 1981	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 2 17 AUGUST 2017	SUP:
					AMDT: 1
					DATED: 07/29/2010

**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.

CITY, STATE

SIDNEY, MT

AIRPORT

SIDNEY-RICHLAND RGNL

EFFECTIVE DATE

17 AUGUST 2017

AMDT NO

6

TAKEOFF MINIMUMS:

RWY 1, 11, 19: STANDARD.

RWY 29: 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 2300.

TEXTUAL DEPARTURE PROCEDURES:

RWY 11: CLIMB HEADING 108.02 TO 2700 BEFORE TURNING RIGHT.

RWY 29: CLIMB HEADING 288.03 TO 2800 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 01: RWY LT, NAVAID BEGINNING 9 FT FROM DER, 39 FT RIGHT OF CENTERLINE, UP TO 1983 FT MSL. TREE 86 FT FROM DER, 358 FT LEFT OF CENTERLINE, 2004 FT MSL. TREE 145 FT FROM DER, 376 FT RIGHT OF CENTERLINE, 2039 FT MSL. TREE 171 FT FROM DER, 538 FT LEFT OF CENTERLINE, 2019 FT MSL. TREES BEGINNING 188 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 2040 FT MSL. TREE 193 FT FROM DER, 470 FT LEFT OF CENTERLINE, 2026 FT MSL. TREE, VEHICLE ON RD BEGINNING 304 FT FROM DER, 99 FT LEFT OF CENTERLINE, UP TO 2037 FT MSL. TREE 640 FT FROM DER, 585 FT LEFT OF CENTERLINE, 2038 FT MSL. TREE, GRD BEGINNING 763 FT FROM DER, 123 FT LEFT OF CENTERLINE, UP TO 2049 FT MSL. TREES BEGINNING 1094 FT FROM DER, 137 FT RIGHT OF CENTERLINE, UP TO 2041 FT MSL. TREES BEGINNING 1218 FT FROM DER, 269 FT RIGHT OF CENTERLINE, UP TO 2044 FT MSL. TREES BEGINNING 1313 FT FROM DER, 270 FT RIGHT OF CENTERLINE, UP TO 2052 FT MSL. TREES BEGINNING 1341 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 2053 FT MSL. TREES BEGINNING 1410 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 2051 FT MSL. TREES BEGINNING 1708 FT FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 2080 FT MSL.

NOTE: RWY 11: TERRAIN+VEG, VEHICLE ON RD, TREE BEGINNING 50 FT FROM DER, 38 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/1996 FT MSL. TREE 86 FT FROM DER, 310 FT LEFT OF CENTERLINE, 1977 FT MSL. TERRAIN+VEG, VEHICLE ON RD BEGINNING 94 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/1996 FT MSL. TREE, TERRAIN+VEG BEGINNING 809 FT FROM DER, 123 FT RIGHT OF CENTERLINE, UP TO 2020 FT MSL. TREES BEGINNING 2102 FT FROM DER, 161 FT RIGHT OF CENTERLINE, UP TO 2035 FT MSL.

NOTE: RWY 19: NAVAID 18 FT FROM DER, 125 FT RIGHT OF CENTERLINE, 2 FT AGL/1984 FT MSL. VEHICLE ON RD 19 FT FROM DER, 336 FT RIGHT OF CENTERLINE, 1997 FT MSL.

NOTE: RWY 29: NAVAID BEGINNING 7 FT FROM DER, 41 FT LEFT OF CENTERLINE, UP TO 1983 FT MSL. FENCE, NAVAID BEGINNING 26 FT FROM DER, 124 FT RIGHT OF CENTERLINE, UP TO 7 FT AGL/1984 FT MSL. TREES BEGINNING 55 FT FROM DER, 195 FT RIGHT OF CENTERLINE, UP TO 1997 FT MSL. TREE, FENCE, BUSH BEGINNING 146 FT FROM DER, 178 FT RIGHT OF CENTERLINE, UP TO 2012 FT MSL. GRD BEGINNING 155 FT FROM DER, 400 FT LEFT OF CENTERLINE, UP TO 1989 FT MSL. TREE, VEHICLE ON RD BEGINNING 193 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 2023 FT MSL. TREES BEGINNING 400 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 1998 FT MSL. TREE, VEHICLE ON RD BEGINNING 516 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 2000 FT MSL. TREES BEGINNING 590 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 2026 FT MSL. TREE 611 FT FROM DER, 91 FT LEFT OF CENTERLINE, 2001 FT MSL. TREES BEGINNING 651 FT FROM DER, 36 FT LEFT OF CENTERLINE, UP TO 2006 FT MSL. TREES BEGINNING 677 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 2039 FT MSL. TREES BEGINNING 891 FT FROM DER, 60 FT LEFT OF CENTERLINE, UP TO 2007 FT MSL. GRD, TREE BEGINNING 942 FT FROM DER, 0 FT OF CENTERLINE, UP TO 2052 FT MSL. TREE 953 FT FROM DER, 76 FT LEFT OF CENTERLINE, 2008 FT MSL. TREE 999 FT FROM DER, 120 FT LEFT OF CENTERLINE, 2010 FT MSL. TREES BEGINNING 1076 FT FROM DER, 122 FT LEFT OF CENTERLINE, UP TO 2012 FT MSL. POLE, TREE BEGINNING 1166 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/2021 FT MSL. GRD, TREE BEGINNING 1184 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 2054 FT MSL. GRD 1389 FT FROM DER, 847 FT RIGHT OF CENTERLINE, 2067 FT MSL. GRD 1396 FT FROM DER, 814 FT LEFT OF CENTERLINE, 2023 FT MSL. OIL PUMP 1438 FT FROM DER, 211 FT LEFT OF CENTERLINE, 36 FT AGL/2027 FT MSL. POLE, TREE BEGINNING 1517 FT FROM DER, 710 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/2104 FT MSL. GRD BEGINNING 1540 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 2051 FT MSL. POLE, TREE BEGINNING 1786 FT FROM DER, 720 FT LEFT OF CENTERLINE, UP TO 19 FT AGL/2104 FT MSL. TREE, GRD, POLE, CATENARY, FENCE BEGINNING 1865 FT FROM DER, 39 FT RIGHT OF CENTERLINE, UP TO 2120 FT MSL. GRD BEGINNING 1919 FT FROM DER, 858 FT LEFT OF CENTERLINE, UP TO 2107 FT MSL. GRD, TREE BEGINNING 2536 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 2108 FT MSL. TRMSN TWR, GRD, TREE BEGINNING 3107 FT FROM DER, 1037 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/2132 FT MSL. POLE, GRD, TREE BEGINNING 4435 FT FROM DER, 494 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/2133 FT MSL. CATENARY, GRD BEGINNING 5121 FT FROM DER, 1729 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/2159 FT MSL. POLE, GRD BEGINNING 5227 FT FROM DER, 1469 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/2180 FT MSL. POLE, TRMSN TWR, GRD, VEHICLE ON RD, FENCE BEGINNING 5280 FT FROM DER, 1205 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/2186 FT MSL. GRD BEGINNING 5280 FT FROM DER, 1255 FT LEFT OF CENTERLINE, UP TO 2135 FT MSL. GRD BEGINNING 5544 FT FROM DER, 1382 FT LEFT OF CENTERLINE, UP TO 2142 FT MSL. GRD BEGINNING 1.1 NM FROM DER, 2019 FT LEFT OF CENTERLINE, UP TO 2158 FT MSL. TREE 1.1 NM FROM DER, 1644 FT LEFT OF CENTERLINE, 2163 FT MSL. GRD, TREE BEGINNING 1.1 NM FROM DER, 1976 FT LEFT OF CENTERLINE, UP TO 2162 FT MSL. TREE 1.2 NM FROM DER, 1747 FT LEFT OF CENTERLINE, 2166 FT MSL. GRD 1.2 NM



**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>
SIDNEY, MT	SIDNEY-RICHLAND RGNL	17 AUGUST 2017	6

FROM DER, 2280 FT LEFT OF CENTERLINE, 2171 FT MSL. GRD 1.3 NM FROM DER, 2458 FT LEFT OF CENTERLINE, 2184 FT MSL. GRD BEGINNING 1.3 NM FROM DER, 2355 FT LEFT OF CENTERLINE, UP TO 2197 FT MSL. GRD, FENCE BEGINNING 1.4 NM FROM DER, 2126 FT LEFT OF CENTERLINE, UP TO 2204 FT MSL. GRD BEGINNING 1.4 NM FROM DER, 2625 FT LEFT OF CENTERLINE, UP TO 2206 FT MSL. GRD 1.5 NM FROM DER, 2775 FT LEFT OF CENTERLINE, 2212 FT MSL. GRD 1.5 NM FROM DER, 2909 FT LEFT OF CENTERLINE, 2216 FT MSL. FENCE 1.8 NM FROM DER, 3160 FT LEFT OF CENTERLINE, 3 FT AGL/2263 FT MSL. GRD 1.8 NM FROM DER, 3123 FT LEFT OF CENTERLINE, 2261 FT MSL.

CONTROLLING OBSTACLES:

RWY 29: 2186 FEET MSL POLE 474321.51N/1041233.57W (CLIMB GRADIENT)(CLIMB TO ALTITUDE),
2263 FEET MSL FENCE 474303.90N/1041418.48W (CEILING),
2261 FEET MSL GND 474305.46N/1041421.84W (VISIBILITY)

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 11: 2534 FEET MSL TOWER 473937.77N/1040701.36W
RWY 29: 2980 FEET MSL TOWER 474244.00N/1042121.00W

REMARKS:

FLIGHT INSPECTED BY:

Digitally signed by

Zack Smyer

DONALD H LANIER

Jun 05, 2017

OFFICE SYMBOL:

FICO

DATE:

6/1/17

DEVELOPED BY:

KELLY DEAN

KELLY D DEAN

*Digitally signed by KELLY D DEAN
Date: 2017.03.24 10:45:25 -05'00'*

OFFICE SYMBOL:

AJV-5431

DATE:

03/24/2017

APPROVED BY:

Digitally signed by

PATRICK MULQUEEN, MANAGER

DONALD H LANIER

Jun 05, 2017

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☐	☒	☒	☐	☐	☒

OTHER:

ZLC, ARPT MGR

CHANGES - REASONS:

1. CHANGED RWY 29 TAKEOFF MINIMUMS FROM 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 315 FT PER NM TO 2500 TO 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 2300 - TARGETS OBSTACLE REVIEW.
2. CHANGED RWY 29 TEXTUAL DEPARTURE PROCEDURES FROM CLIMB HEADING 288.03 TO 2800 BEFORE PROCEEDING ON COURSE TO CLIMB HEADING 288.03 TO 2800 BEFORE TURNING LEFT - ALLOW RIGHT TURN IMMEDIATELY ONCE CLEARING ICA AND STANDARDIZE WITH RWY 11 INSTRUCTIONS.
3. UPDATED TAKEOFF OBSTACLE NOTES - TARGETS OBSTACLE REVIEW.
4. UPDATED CONTROLLING OBSTACLES - TARGETS OBSTACLE REVIEW.
5. AIRPORT NAME CHANGED FROM SIDNEY-RICHLAND MUNI TO SIDNEY-RICHLAND RGNL.

QUALITY
10
CHECKED

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 17 AUGUST 2017																			
CITY AND STATE BEAUFORT, NC				ELEVATION: 10 TDZE: 9 AIRPORT NAME: MICHAEL J SMITH FIELD				FACILITY IDENTIFIER: MRH		PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: NDB RWY 14, AMDT 1A, 09/18/2014						SUP AMD'T 1 DATE 05/31/2012			



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		MAP: 4.99 NM AFTER ROVDY LOM								
GSO VORTAC			ROVDY LOM			236.34 / 31.25			2900		CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 2500 DIRECT ROVDY LOM AND HOLD.								
BZM VOR/DME			ROVDY LOM			108.29 / 37.54			3900										
MOPED INT/CLT 22.93 DME			ROVDY LOM			070.58 / 22.50			3400										
										ADDITIONAL FLIGHT DATA: HOLD N, RT, 201.99 INBOUND. CHART FAS OBST: 1060 TOWER 354114N/0803046W CHART: MAX 6000 AT ROVDY LOM ROVDY LOM TO RW20: 3.20/39									
1. PT <u>L</u> SIDE OF COURSE <u>022.04</u> OUTBOUND <u>2500</u> FT WITHIN <u>10</u> MILES OF <u>ROVDY LOM</u> (IAF)																			
2.																			
3. FAC <u>202.04</u> FAF <u>ROVDY LOM</u> DIST FAF TO MAP <u>4.99</u> THLD <u>4.99</u>																			
4. MIN. ALT <u>ROVDY LOM 2500</u>																			
8. MSA FROM: <u>RU LOM 3400</u>										MAG VAR: 6W 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				
S-20	1420	3/4	648	1420	3/4	648	1420	1 3/8	648	1420	1 3/8	648							
CIRCLING	1420	1	648	1420	1	648	1420	1 7/8	648	1420	2	648							
NOTES:																			
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LEXINGTON ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET, INCREASE S-20 CATS C AND D, AND CIRCLING CAT C VISIBILITY 1/8 SM AND CIRCLING CAT D 1/4 SM.																			
CHART NOTE: FOR INOPERATIVE ALS INCREASE CAT D VISIBILITY TO 1 7/8 SM.																			
(CONTINUED ON PAGE 2)																			
CITY AND STATE SALISBURY, NC				ELEVATION: 772 TDZE: 772 AIRPORT NAME: MID-CAROLINA RGNL				FACILITY IDENTIFIER: RUQ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 20, AMDT 1B 17 AUGUST 2017				SUP AMDT 1A DATE 05/26/2016					



**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.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS WHEN USING LEXINGTON ALTIMETER SETTING INCREASE CAT D VISIBILITY TO 2 SM.

QUALITY
10
CHECKED

CITY AND STATE

SALISBURY, NC

ELEVATION: 772

TDZE: 772

AIRPORT NAME:

MID-CAROLINA RGNL

FACILITY
IDENTIFIER:

RUQ

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB RWY 20, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

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		LP: RW13 LNAV: RW13					
OLTIQ (IF/IAF)		EDHUC (TF) (FB) (RNP 1.00)		131.18 / 5.03				3800		CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3900 DIRECT OLTIQ AND HOLD.					
EDHUC (FAF)		SISOC/2.60 NM TO RW13 (TF) (FB) (RNP 0.30)		131.24 / 3.13											
SISOC/2.60 NM TO RW13		RW13 (MAP) (TF) (FB) (RNP 0.30)		131.24 / 2.60						ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1981 GRD 474027N/1012804W CHART FAS OBST: 2038 TREE 474125N/1012846W WAAS CHANNEL # 66040 REFERENCE PATH ID: W13A CHART CIRCLING ICON. EDHUC TO RW13: 3.00/40. LTP HAE: 570.4 M					
RW13 (MAP)		2500 MSL (CA)		131.24				2500							
2500 MSL		OLTIQ (DF) (FO) (RNP 1.00)						3900							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 9E EPOCH YEAR: 2000					
2. HOLD NW OLTIQ, RT, 131.18 INBOUND, 3900 FT. IN LIEU OF PT (IAF)															
3. FAC: 131.24 FAF: EDHUC DIST FAF TO MAP: 5.73 THLD: 5.73															
4. MIN. ALT: OLTIQ 3900, EDHUC 3800, SISOC/2.60 NM TO RW13 2800															
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: _____															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LP MDA	2360	1	423	2360	1	423		NA			NA				
LNAV MDA	2420	1	483	2420	1	483		NA			NA				
CIRCLING	2640	1	703	2720	1	783		NA			NA				
NOTES: CHART NOTE: CIRCLING NA TO RWYS 21 AND 03. CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: USE MINOT INTL ALTIMETER SETTING.															
CITY AND STATE GARRISON, ND		ELEVATION: 1937 TDZE: 1937 AIRPORT NAME: GARRISON MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 1 17 AUGUST 2017				SUP: AMDT: ORIG-A DATED 01/11/2006					

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.	221/30 CW 041/30	OLTIQ (IF/IAF) (FO)	3900
2.	041/30 CW 221/30 (NOPT)	041/15 CW 221/15	4200
	041/15 CW 221/15	OLTIQ (IF/IAF) (FB)	3900

QUALITY
19
CHECKED

CITY AND STATE

GARRISON, ND

ELEVATION: 1937

TDZE: 1937

AIRPORT NAME:

GARRISON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 13, AMDT 1
17 AUGUST 2017

SUP:

AMDT: ORIG-A

DATED: 01/11/2006

**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	D05
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	473933.2790N
LTP/FTP LONGITUDE	1012630.3230W
LTP/FTP ELLIPSOIDAL HEIGHT	+05704
FPAP LATITUDE	473824.7465N
FPAP LONGITUDE	1012506.1770W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 C3885349

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05902
FPAP ORTHOMETRIC HEIGHT	+05902

QUALITY
19
CHECKED

CITY AND STATE GARRISON, ND	ELEVATION: 1937 AIRPORT NAME: GARRISON MUNI	TDZE: 1937 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				DATED: 01/11/2006

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		LP: RW31 LNAV: RW31							
OGZEV (IF/IAF)		EYMOV (TF) (FB) (RNP 1.00)		311.44 / 5.00				3600		CLIMB TO 3900 DIRECT OLTIQ AND HOLD.							
EYMOV (FAF)		XOMYY/2.40 NM TO RW31 (TF) (FB) (RNP 0.30)		311.38 / 2.79													
XOMYY/2.40 NM TO RW31		RW31 (MAP) (TF) (FB) (RNP 0.30)		311.38 / 2.40						ADDITIONAL FLIGHT DATA: HOLD NW, RT, 131.18 INBOUND. CHART FAS OBST: 1976 TREE 473823N/1012450W CHART FAS OBST: 2070 ELEVATOR 473901N/1012509W WAAS CHANNEL # 97740 REFERENCE PATH ID: W31A CHART CIRCLING ICON. EYMOV TO RW31: 3.00/40. LTP HAE: 561.5 M							
RW31 (MAP)		2337 MSL (CA)		311.38													
2337 MSL		OLTIQ (DF) (FO) (RNP 1.00)						3900									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 9E EPOCH YEAR: 2000							
2. HOLD SE OGZEV, RT, 311.44 INBOUND, 3700 FT. IN LIEU OF PT (IAF)																	
3. FAC: 311.38 FAF: EYMOV DIST FAF TO MAP: 5.19 THLD: 5.19																	
4. MIN. ALT: OGZEV 3700, EYMOV 3600, XOMYY/2.40 NM TO RW31 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: _____																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X							
CATEGORY ==>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LP MDA	2360	1	433	2360	1	433		NA			NA						
LNAV MDA	2440	1	513	2440	1	513		NA			NA						
CIRCLING	2640	1	703	2720	1	783		NA			NA						
NOTES: CHART NOTE: CIRCLING NA TO RWYS 21 AND 03. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: USE MINOT INTL ALTIMETER SETTING.																	
CITY AND STATE GARRISON, ND		ELEVATION: 1937 TDZE: 1927 AIRPORT NAME: GARRISON MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1 17 AUGUST 2017						SUP: AMDT: ORIG-A DATED 01/11/2006			



**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.	041/30 CW 221/30 041/15 CW 221/15	041/15 CW 221/15 OGZEV (IF/IAF) (FO)	4200 3700
2.	221/30 CW 041/30 (NOPT) 221/15 CW 041/15	221/15 CW 041/15 OGZEV (IF/IAF) (FB)	3900 3700

QUALITY
19
CHECKED

CITY AND STATE

GARRISON, ND

ELEVATION: 1937

TDZE: 1927

AIRPORT NAME:

GARRISON MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG-A

DATED: 01/11/2006

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	D05
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	473905.1915N
LTP/FTP LONGITUDE	1012555.8195W
LTP/FTP ELLIPSOIDAL HEIGHT	+05615
FPAP LATITUDE	474013.7170N
FPAP LONGITUDE	1012719.9965W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

EA2BEE06

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05814
FPAP ORTHOMETRIC HEIGHT	+05814

QUALITY
19
CHECKED

CITY AND STATE GARRISON, ND	ELEVATION: 1937 AIRPORT NAME: GARRISON MUNI	TDZE: 1927 GARRISON MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1 17 AUGUST 2017	SUP:
					AMDT: ORIG-A
					DATED: 01/11/2006

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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		RNP: DA CLIMB TO 8000 ON TRACK 259.46 TO YANNU AND ON TRACK 258.41 TO ABQ VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 079.00 INBOUND. CHART FAS OBST: 5470 TREE 350258N/1063354W CHART 7158 TREES 350130.00N/1062903.00W DISTANCE TO THLD FROM 390 HAT: 1.07 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 5404.9 MSL (DO NOT CHART) CHART MANDATORY 10000 AT TACOH CHART MANDATORY 10000 AT PILLA CHART AT OR ABOVE 9000 AT BRNDO CHART AT OR ABOVE 9000 AT BRKBD					
PILLA (IAF)		RMERO (TF) (FB) (RNP 1.00)		348.74 / 4.00				9000							
RMERO (IF)		SIMSS (TF) (FB) (RNP 1.00)		348.74 / 4.89				7700							
BRNDO (IF)		AUXFL (TF) (FB) (RNP 1.00)		077.68 / 3.06				8500							
AUXFL		FABEX (RF) (FB) (RNP 1.00)		(3.55 NM RADIUS CCW (CFDXM))/3.62				7400							
BRKBD (IF)		FABEX (TF) (FB) (RNP 1.00)		019.51 / 5.02				7400							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT FABEX															
3. FAC: * FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: FABEX 7400, CHNGA 7000															
5. DIST TO THLD FROM OM: 5.01 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 7000 GS ALT AT: CHNGA 7000, LEETR 6007 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 50.0 # 34:1 IS CLEAR															
8. MSA FROM: RW26 12000															
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 0.17 DA	5745	1 1/4	390	5745	1 1/4	390	5745	1 1/4	390	5745	1 1/4	390			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -13C (9F) OR ABOVE 48C (119F). CHART NOTE: RF REQUIRED. CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT TACOH : MAX 210 KIAS. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 5355 TDZE: 5355				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
ALBUQUERQUE, NM		AIRPORT NAME:						RNAV (RNP) Z RWY 26, AMDT 2				AMDT: 1B			
		ALBUQUERQUE INTL SUNPORT						17 AUGUST 2017				DATED 02/05/2015			

QUALITY
24
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33					
TERMINAL ROUTES, (CONT.):					
FROM		TO	COURSE AND DISTANCE	ALTITUDE	
TACOH (IF)	TEAJA (TF) (FB) (RNP 0.40)	238.88 / 3.65	9200		
TEAJA	SIMSS (RF) (FB) (RNP 0.40)	(2.69 NM RADIUS CW (CFPQV))/5.16	7700		
SIMSS	FABEX (RF) (FB) (RNP 0.40)	(2.53 NM RADIUS CW (CFPQK))/1.35	7400		
FABEX	CHNGA (TF) (FB) (RNP 0.17)	019.37 / 1.50	7000		
CHNGA (FAF)	*LEETR (RF) (FB) (RNP 0.17)	(1.49 NM RADIUS CCW (CFDXJ))/3.12			
LEETR	*RW26 (MAP) (TF) (FO) (RNP 0.17)	259.47 / 1.89			
RW26 (MAP)	YANNU (TF) (FB) (RNP 1.00)	259.46 / 6.25			
YANNU	ABQ VORTAC (TF) (FO) (RNP 1.00)	258.41 / 5.61	8000		
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT BRNDO : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT PILLA : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT BRKBD : MAX 210 KIAS. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE AT BRNDO: (RNP 0.17). CHART PLANVIEW NOTE AT PILLA: (RNP 0.17). CHART PLANVIEW NOTE AT TACOH: (RNP 0.17). CHART PLANVIEW NOTE AT BRKBD: (RNP 0.17). CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.					
CITY AND STATE ALBUQUERQUE, NM		ELEVATION: 5355 AIRPORT NAME: ALBUQUERQUE INTL SUNPORT	TDZE: 5355	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 26, AMDT 2 17 AUGUST 2017
SUP:					
AMDT:					1B
DATED:					02/05/2015

QUALITY
24
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.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
TONOPAH, NV	TONOPAH	17 AUGUST 2017	2

TAKEOFF MINIMUMS:

RWY 11, 29: N/A - ATC.

RWY 15: STANDARD WITH A MINIMUM CLIMB OF 320 FT PER NM TO 9100 OR 2500-3 FOR VCOA.

RWY 33: STANDARD WITH A MINIMUM CLIMB OF 352 FT PER NM TO 9100 OR 2500-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 15: CLIMBING LEFT TURN DIRECT TONOPAH (TPH) VORTAC THENCE...

RWY 33: CLIMBING RIGHT TURN DIRECT TONOPAH (TPH) VORTAC THENCE...

...CONTINUE CLIMB IN TPH HOLDING PATTERN (NE, RT, 246.00 INBOUND) TO CROSS TPH VORTAC AT OR ABOVE 9300 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 15, 33: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TONOPAH AIRPORT AT OR ABOVE 7800 DIRECT TONOPAH VORTAC, CONTINUE CLIMB IN TPH HOLDING PATTERN (NE, RT, 246.00 INBOUND) TO CROSS TPH VORTAC AT OR ABOVE 9300 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 15, TRANSMISSION LINE TOWER 515 FT FROM DER, 473 FT LEFT OF CENTERLINE, 23 FT AGL/5418 FT MSL.

NOTE: RWY 33, FENCE BEGINNING 173 FT FROM DER, 401 FT RIGHT OF CENTERLINE, 6 FT AGL/5438 FT MSL.

CONTROLLING OBSTACLES:

RWY 15: 8179 FT MSL AAO 381035.61N-1165552.08W.

RWY 33: 7284 FT MSL AAO 381016.96N-1170138.46W.

VCOA: 8179 FT MSL AAO 381035.61N-1165552.08W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: **RWY 15, 33:** 9108 FT MSL SPOT ELEVATION 380137.78N-1172934.30W.



**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>
TONOPAH, NV	TONOPAH	17 AUGUST 2017	2

REMARKS:

FLIGHT INSPECTED BY:

THOMAS E. MOLOKIE

*Digitally signed by
JACOB POWERS
Apr 04, 2017*

OFFICE SYMBOL:

FICO

DATE:

03/28/2017

DEVELOPED BY:

ALAN WILL (IVAN BLANCO)

*Digitally signed by
JACOB POWERS
Apr 04, 2017*

OFFICE SYMBOL:

AJV-5432

DATE:

06/23/2016

APPROVED BY:

LONNIE EVERHART

*Digitally signed by
JACOB POWERS
Apr 04, 2017*

OFFICE SYMBOL:

AJV -5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA



OTHER:

ZLC, NELLIS APP CON, AMGR

CHANGES - REASONS:

1. REMOVED 2600-2 CEILING AND VISIBILITY MITIGATION FROM TAKEOFF MINS - EVALUTION SHOWED NO OBSTACLES MEET CRITERIA FOR APPLICATION OF THIS OPTION.
2. CHANGED RWY 15, 33 TAKEOFF MINS FROM 2600-2 OR STANDARD WITH A MIN CLIMB OF 260 FT PER NM TO 8000 TO **RWY 15:** STANDARD WITH A MIN CLIMB OF 320 FT PER NM TO 9100 OR 2400-3 FOR VCOA. **RWY 33:** STANDARD WITH A MIN CLIMB OF 352 FT PER NM TO 9100 OR 2400-3 FOR VCOA - APPLICATION OF AAO CRITERIA PRODUCED NEW CONTROLLING OBSTACLES.
3. CHANGED CLIMB IN HOLD FROM ...CROSS TPH VORTAC AT OR ABOVE 8000 TO ...CROSS TPH VORTAC AT OR ABOVE 9300 - APPLICATION OF AAO CRITERIA AND PR ADJUSTMENT PRODUCED NEW MIN HOLDING ALTITUDE.
4. ADDED VCOA OPTION TO PROCEDURE - REQUIRED BY CURRENT CRITERIA.
5. ADDED TAKEOFF OBSTACLE NOTES TO RWY 15, 33 - DATABASE MODIFICATION.
6. ADDED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT - REQUIRED BY CURRENT CRITERIA.
7. RECREATED MAPS - NO MAPS WERE ARCHIVED.

12/12/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/01/16.

1. RWY 15 TAKEOFF MINIMUMS CLIMB TO ALTITUDE CHANGED FROM 9200 TO 9100.
2. RWY 33 TAKEOFF MINIMUMS CLIMB TO ALTITUDE CHANGED FROM 9200 TO 9100.
3. VCOA ALTITUDE TO CROSS TPH VORTAC CHANGED FROM 9200 TO 9300.

3/20/17: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/01/16 AND UPDATED ON 12/12/16.

1. CHANGED VCA CLIMB-TO ALTITUDE FROM 7700 TO 7800 DUE TO APPLICATION OF PRECIPITOUS TERRAIN ADJUSTMENT PER AFS.
2. CHANGED VCOA MINIMUMS FROM 2400/3 TO 2500/3 DUE TO PR ADJUSTMENT.

06/13/2017: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/04/2017.

ADDED "NV" TO CITY/STATE.

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		LNAV: YICUP					
BENEE		YODUK (TF) (FB) (RNP 2.00)		066.21 / 18.28				4000		CLIMBING RIGHT TURN TO 3500 DIRECT VEBUC AND HOLD.					
WELTI		WUSAT (TF) (FB) (RNP 2.00)		162.36 / 8.79				4000							
WUSAT (IAF)		VEBUC (NOPT) (TF) (FB) (RNP 1.00)		241.00 / 5.00				3300		ADDITIONAL FLIGHT DATA: FAS OBST: 1129 TREE 423648N/0774712W UDOPE TO RW14: 2.98/40. FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 13.78 DEGREES.					
YODUK (IAF)		VEBUC (NOPT) (TF) (FB) (RNP 1.00)		060.88 / 5.00				3300							
VEBUC (IF/IAF) (SEE FORM 8260-10)		UDECA (TF) (FB) (RNP 1.00)		150.94 / 3.00				2900							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 9W EPOCH YEAR: 1975					
2. HOLD NW VEBUC, RT, 150.94 INBOUND, 3300 FT. IN LIEU OF PT (IAF)															
3. FAC: 150.95 FAF: UDOPE DIST FAF TO MAP: 5.60 THLD: 6.08															
4. MIN. ALT: VEBUC 3300, UDECA 2900, UDOPE 2600															
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: YICUP 3800															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A						@					
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1840	1 1/4	1205	1840	1 1/2	1205	1840	3	1205		NA				
CIRCLING	1940	1 1/4	1280	2120	1 1/2	1460	2120	3	1460		NA				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ CAT A 1300-2, CAT B 1500-2, CAT C 1500-3 CHART NOTE: PROCEDURE NA AT NIGHT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BENEE ON V164 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WELTI ON V252 NORTHWEST BOUND. (CONTINUED ON PAGE 2)															
CITY AND STATE DANSVILLE, NY		ELEVATION: 660 TDZE: 635 AIRPORT NAME: DANSVILLE MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, ORIG-A 17 AUGUST 2017				SUP: AMDT: ORIG DATED 10/27/2005					



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
UDECA	UDOPE (TF) (FB) (RNP 1.00)	150.94 / 3.00	2600
UDOPE (FAF)	YICUP (MAP) (TF) (FO) (RNP 0.30)	150.95 / 6.00	
YICUP (MAP)	1060 MSL (CA)	150.95	
1060 MSL	VEBUC (DF) (FO) (RNP 1.00)		3500

NOTES, (CONT.):

CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WELTI ON V252 NORTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BENEE ON V164 SOUTHEAST BOUND.

QUALITY
16
CHECKED

CITY AND STATE DANSVILLE, NY	ELEVATION: 660	TDZE: 635	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, ORIG-A 17 AUGUST 2017	SUP:	
	AIRPORT NAME:				AMDT:	ORIG
	DANSVILLE MUNI				DATED:	10/27/2005

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		ADDITIONAL FLIGHT DATA:							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: _____ EPOCH YEAR: _____							
2. _____																	
3. FAC: _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____																	
4. MIN. ALT: _____																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: _____ TCH: _____																	
8. MSA FROM: _____																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A							
CATEGORY =====>																	
		DH/MDA VIS		DH/MDA VIS				DH/MDA VIS				DH/MDA VIS					
NOTES:																	
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017																	
CITY AND STATE DANSVILLE, NY		ELEVATION: 662 TDZE: 657 AIRPORT NAME: DANSVILLE MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG, 10/27/2005						SUP: AMDT: NONE DATED					

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES											MISSED APPROACH								
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 2500 DIRECT OYUNA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 050.80 INBOUND. CHART FAS OBST: 905 TREE 343054N/0824110W DISTANCE TO THLD FROM 355 HAT: 1.00 NM. CHART VDP AT 1.15 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 90540 REFERENCE PATH ID: W23A CHART CIRCLING ICON. CHART 928 TREE 343120N/0824000W LTP HAE: 197.3 M									
OXTIC (IF/IAF)		BUFZI (TF) (FB) (RNP 1.00)			230.98 / 6.02			2500											
BUFZI (FAF)		YURUR/2.10 NM TO RW23 (TF) (FB) (RNP 0.30)			230.93 / 3.26														
YURUR/2.10 NM TO RW23		RW23 (MAP) (TF) (FO) (RNP 0.30)			230.93 / 2.10														
RW23 (MAP)		1109 MSL (CA)			230.93			2500											
1109 MSL		OYUNA (DF) (FO) (RNP 1.00)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE OXTIC, RT, 230.98 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 230.93 FAF: BUFZI DIST FAF TO MAP: 5.36 THLD: 5.36 4. MIN. ALT: OXTIC 3000, BUFZI 2500, YURUR/2.10 NM TO RW23 1460* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: BUFZI 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR 8. 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	1109	1 1/4	355	1109	1 1/4	355	1109	1 1/4	355	1109	1 1/4	355							
LNAV/VNAV DA	1216	1 5/8	462	1216	1 5/8	462	1216	1 5/8	462	1216	1 5/8	462							
LNAV MDA	1160	1	406	1160	1	406	1160	1 1/8	406	1160	1 1/8	406							
CIRCLING	1260	1	478	1320	1	538	1440	1 3/4	658	1500	2 1/4	718							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9C (16F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																			
CITY AND STATE		ELEVATION: 782 TDZE: 754			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
ANDERSON, SC		AIRPORT NAME: ANDERSON RGNL						RNAV (GPS) RWY 23, AMDT 1 17 AUGUST 2017				AMDT: ORIG-A							
												DATED 03/10/2011							

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.	141/30 CW 321/30 141/10 CW 321/10 (NOPT)	141/10 CW 321/10 OXTIC (IF/IAF) (FB)	6300 3000
2.	321/30 CW 141/30 321/15 CW 141/15	321/15 CW 141/15 OXTIC (IF/IAF) (FO)	4800 3000



CITY AND STATE ANDERSON, SC	ELEVATION: 782 TDZE: 754 AIRPORT NAME: ANDERSON RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				DATED: 03/10/2011

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAND
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	343000.2460N
LTP/FTP LONGITUDE	0824205.8105W
LTP/FTP ELLIPSOIDAL HEIGHT	+01973
FPAP LATITUDE	342858.1170N
FPAP LONGITUDE	0824323.1990W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

96E2B6FC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02277
FPAP ORTHOMETRIC HEIGHT	+02277

QUALITY
6
CHECKED

CITY AND STATE

ANDERSON, SC

ELEVATION: 782

TDZE: 754

AIRPORT NAME:

ANDERSON RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, AMDT 1

17 AUGUST 2017

SUP:

AMDT:

ORIG-A

DATED:

03/10/2011

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		LP: RW13 LNAV: RW13												
WOPOB (IF/IAF)				IYLUG (TF) (FB) (RNP 1.00)				130.57 / 5.00				3400		CLIMB TO 3400 DIRECT WUNOV AND HOLD.												
IYLUG (FAF)				ZEVOB/3.00 NM TO RW13 (TF) (FB) (RNP 0.30)				130.64 / 1.92																		
ZEVOB/3.00 NM TO RW13				RW13 (MAP) (TF) (FO) (RNP 0.30)				130.64 / 3.00																		
RW13 (MAP)				2193 MSL (CA)				130.64																		
2193 MSL				WUNOV (DF) (FO) (RNP 1.00)								3400		ADDITIONAL FLIGHT DATA: HOLD SE, RT, 310.82 INBOUND. CHART FAS OBST: 2206 WINDMILL 445600N/0974429W CHART FAS OBST: 1934 TREE 445515N/0974511W CHART 2271 WINDMILL 445629N/0974541W WAAS CHANNEL # 58340 REFERENCE PATH ID: W13A CHART CIRCLING ICON. CHART WATERTOWN ASOS IYLUG TO RW13: 3.00/40 LTP HAE: 521.9 M												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	MAG VAR: 4E EPOCH YEAR: 2020									
2. HOLD NW WOPOB, RT, 130.57 INBOUND, 3400 FT. IN LIEU OF PT (IAF)																										
3. FAC: 130.64 FAF: IYLUG DIST FAF TO MAP: 4.92 THLD: 4.92																										
4. MIN. ALT: WOPOB 3400, IYLUG 3400, ZEVOB/3.00 NM TO RW13 2780																										
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: _____																										
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A X																			
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
LP MDA	2260	1	467	2260	1	467		NA			NA															
LNAV MDA	2380	1	587	2380	1	587		NA			NA															
CIRCLING	2380	1	587	2380	1	587		NA			NA															
NOTES: CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: USE WATERTOWN ALTIMETER SETTING. CHART NOTE: CIRCLING RWYS 3, 21 NA.																										
CITY AND STATE CLARK, SD				ELEVATION: 1793 TDZE: 1793 AIRPORT NAME: CLARK COUNTY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG 17 AUGUST 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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TAA

	FROM	TO	ALT
1.	041/30 CW 221/30 (NOPT)	041/20 CW 221/20	4000
2.	041/20 CW 221/20	WOPOB (IF/IAF) (FB)	3400
3.	221/30 CW 041/30	221/10 CW 041/10	4600
4.	221/10 CW 041/10	WOPOB (IF/IAF) (FO)	3400

CITY AND STATE

CLARK, SD

ELEVATION: 1793

TDZE: 1793

AIRPORT NAME:

CLARK COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 13, ORIG

17 AUGUST 2017

SUP:

AMDT: NONE

DATED:

QUALITY
10
CHECKED

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	8D7
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	445352.4630N
LTP/FTP LONGITUDE	0974256.2760W
LTP/FTP ELLIPSOIDAL HEIGHT	+05219
FPAP LATITUDE	445249.7940N
FPAP LONGITUDE	0974127.1960W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
<u>CRC REMAINDER</u>	4C212481

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05465
FPAP ORTHOMETRIC HEIGHT	+05465

CITY AND STATE

CLARK, SD

ELEVATION: 1793

TDZE: 1793

AIRPORT NAME:

CLARK COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 13, ORIG

17 AUGUST 2017

SUP:

AMDT: NONE

DATED:

QUALITY
10
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LP: RW31 LNAV: RW31					
WUNOV (IF/IAF)		HOBUG (TF) (FB) (RNP 1.00)		310.82 / 5.00				3400		CLIMB TO 3400 DIRECT WPOPB AND HOLD.					
HOBUG (FAF)		WOLTA/2.00 NM TO RW31 (TF) (FB) (RNP 0.30)		310.76 / 2.93											
WOLTA/2.00 NM TO RW31		RW31 (MAP) (TF) (FO) (RNP 0.30)		310.76 / 2.00						ADDITIONAL FLIGHT DATA: HOLD NW, RT, 130.57 INBOUND. CHART FAS OBST: 1929 TREE 445336N/0974151W CHART FAS OBST: 1908 TREE 445315N/0974144W WAAS CHANNEL # 63240 REFERENCE PATH ID: W31A CHART CIRCLING ICON. HOBUG TO RW31: 3.00/39.7 CHART WATERTOWN ASOS LTP HAE: 521.1 M					
RW31 (MAP)		2193 MSL (CA)		310.76											
2193 MSL		WPOPB (DF) (FO) (RNP 1.00)						3400							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 4E EPOCH YEAR: 2020					
2. HOLD SE WUNOV, RT, 310.82 INBOUND, 3400 FT. IN LIEU OF PT (IAF)															
3. FAC: 310.76 FAF: HOBUG DIST FAF TO MAP: 4.93 THLD: 4.93															
4. MIN. ALT: WUNOV 3400, HOBUG 3400, WOLTA/2.00 NM TO RW31 2460															
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: _____															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LP MDA	2220	1	429	2220	1	429		NA			NA				
LNAV MDA	2240	1	449	2240	1	449		NA			NA				
CIRCLING	2340	1	547	2380	1	587		NA			NA				
NOTES: CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: USE WATERTOWN ALTIMETER SETTING. CHART NOTE: CIRCLING RWYS 3, 21 NA.															
CITY AND STATE CLARK, SD		ELEVATION: 1793 TDZE: 1791 AIRPORT NAME: CLARK COUNTY		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG 17 AUGUST 2017						SUP: AMDT: NONE DATED			

QUALITY
10
CHECKED

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

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

TAA

	FROM	TO	ALT
1.	221/30 CW 041/30 (NOPT)	221/4 CW 041/4	3900
2.	221/4 CW 041/4	WUNOV (IF/IAF) (FB)	3400
3.	041/30 CW 221/30	041/4 CW 221/4	4600
4.	041/4 CW 221/4	WUNOV (IF/IAF) (FO)	3500

CITY AND STATE

CLARK, SD

ELEVATION: 1793

TDZE: 1791

AIRPORT NAME:

CLARK COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, ORIG

17 AUGUST 2017

SUP:

AMDT:

DATED:

QUALITY
10
CHECKED

NONE

**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	8D7
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	445326.7865N
LTP/FTP LONGITUDE	0974219.7685W
LTP/FTP ELLIPSOIDAL HEIGHT	+05211
FPAP LATITUDE	445429.4435N
FPAP LONGITUDE	0974348.8815W
THRESHOLD CROSSING HEIGHT (TCH)	00039.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 D5B60DE4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05457
FPAP ORTHOMETRIC HEIGHT	+05457

CITY AND STATE

CLARK, SD

ELEVATION: 1793

TDZE: 1791

AIRPORT NAME:

CLARK COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, ORIG

17 AUGUST 2017

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

NONE

**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>
CLARK, SD	CLARK COUNTY	08/17/2017	ORIG

TAKEOFF MINIMUMS:

RWY 03, RWY 21: NA - ENVIRONMENTAL.

RWY 13: STANDARD.

RWY 31: STANDARD WITH A MINIMUM CLIMB OF 207 FT PER NM TO 2500 OR 1800-3 FOR VCOA OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1600 FEET PRIOR TO DER.

TEXTUAL DEPARTURE PROCEDURES:

RWY 13, CLIMB ON HEADING 130.69 TO 2900 BEFORE TURNING NORTHEAST.

RWY 31: CLIMB ON HEADING 310.70 TO 2600 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 31: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CLARK COUNTY AIRPORT AT OR ABOVE 3400 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 13: FENCE 4 FT FROM DER, 346 FT RIGHT OF CENTERLINE, 1791 FT MSL. TREE 63 FT FROM DER, 475 FT RIGHT OF CENTERLINE, 1796 FT MSL. TREE 83 FT FROM DER, 262 FT LEFT OF CENTERLINE, 1797 FT MSL. TREE 130 FT FROM DER, 425 FT LEFT OF CENTERLINE, 1800 FT MSL. TREE 277 FT FROM DER, 522 FT LEFT OF CENTERLINE, 1807 FT MSL. TREE 2500 FT FROM DER, 1100 FT LEFT OF CENTERLINE, 1898 FT MSL. TREES AND POLE BEGINNING 2675 FT FROM DER, 320 FT LEFT OF CENTERLINE, UP TO 1908 FT MSL.

NOTE: RWY 31: TREE 268 FT FROM DER, 560 FT LEFT OF CENTERLINE, 1817 FT MSL VEHICLE ON ROAD BEGINNING 416 FT FROM DER, 155 FT LEFT OF CENTERLINE, UP TO 1812 FT MSL. TREE 1407 FT FROM DER, 676 FT RIGHT OF CENTERLINE, 1842 FT MSL.

CONTROLLING OBSTACLES:

RWY 31: 2319 FT MSL WINDMILL (46-022852) 445626.02N/0974601.30W (CG/CGTA)

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 13, RWY 31: 3553 FT MSL TOWER (46-000261) 445757.00N/0973523.00W

VCOA: 2357 FT MSL TOWER (46-000521) 445143.64N/0974600.75W (LVL SURFACE); 3553 FT MSL TOWER (46-000261) 445757.00N/0973523.00W (CTA)

REMARKS:

RWY 03/21 CLOSED INDEFINITELY.

FLIGHT INSPECTED BY:

Paul Koscheka
*Digitally signed by
ROBERT G HAMILTON
Jun 02, 2017*

OFFICE SYMBOL:

FICO

DATE:

05/16/17

DEVELOPED BY:

HEIDI SNIDER
HEIDI CHRISTINE SNIDER
*Digitally signed by HEIDI CHRISTINE SNIDER
Date: 2017.03.29 10:31:12 -05'00'*

OFFICE SYMBOL:

AJV-5423

DATE:

02/22/2017

APPROVED BY:

JULIE MORGAN
*Digitally signed by
ROBERT G HAMILTON
Jun 02, 2017*

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH AIRSPACE DOCKET: 14-AGL-12

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☐	☒	☒	☐	☐	☒

OTHER:

ZMP, AMGR

CHANGES - REASONS:

QUALITY
10
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LNAV: RW15								
ZOTBY (IAF)		YISRU (NOPT) (TF) (FB) (RNP 1.00)		138.89 / 21.26			3400		CLIMB TO 3400 DIRECT GIZBU AND HOLD.								
OBITT (IAF)		YISRU (NOPT) (TF) (FB) (RNP 1.00)		201.80 / 19.27			3400										
YISRU (IF/IAF)		GANAC (TF) (FB) (RNP 1.00)		149.67 / 6.10			3000										
GANAC (FAF)		OVEPE/2.00 NM TO RW15 (TF) (FB) (RNP 0.30)		149.71 / 1.92													
OVEPE/2.00 NM TO RW15 (SEE FORM 8260-10)		RW15 (MAP) (TF) (FO) (RNP 0.30)		149.71 / 2.00					ADDITIONAL FLIGHT DATA: HOLD SE, RT, 329.82 INBOUND. CHART FAS OBST: 1859 TREE 440152N/0970547W GANAC TO RW15: 3.00/32.								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. HOLD NW YISRU, RT, 149.67 INBOUND, 3400 FT. IN LIEU OF PT (IAF)																	
3. FAC: 149.71 FAF: GANAC DIST FAF TO MAP: 3.92 THLD: 3.92																	
4. MIN. ALT: YISRU 3400, GANAC 3000, OVEPE/2.00 NM TO RW15 2380																	
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: RW15 4100																	
MAG VAR: 4E 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		
LNAV MDA	2120	1	402	2120	1	402	2120	1 1/8	402	2120	1 1/8	402					
CIRCLING	2180	1	462	2180	1	462	2180	1 1/2	462	2280	2	562					
NOTES: CHART NOTE: CIRCLING NA TO RWYS 3 AND 21. CHART NOTE: RWY 15 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 ZOTBY ON V170 NORTHWEST BOUND. (CONTINUED ON PAGE 2)																	
CITY AND STATE MADISON, SD		ELEVATION: 1718 TDZE: 1718 AIRPORT NAME: MADISON MUNI			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, ORIG-B 17 AUGUST 2017						SUP: AMDT: ORIG-A DATED 02/05/2015				



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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW15 (MAP)	2118 MSL (CA)	149.71	
2118 MSL	GIZBU (DF) (FO) (RNP 1.00)		3400

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OBITT ON V181 NORTHBOUND.

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BROOKINGS ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND LNAV CAT C/D VISIBILITY 1/4 SM.

QUALITY
29
CHECKED

CITY AND STATE
MADISON, SD

ELEVATION: 1718 TDZE: 1718
AIRPORT NAME:
MADISON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 15, ORIG-B
17 AUGUST 2017

SUP:	
AMDT:	ORIG-A
DATED:	02/05/2015

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE			ILS: DA LOC: I-RAP 1.60 DME									
HELTA/I-RAP 13.26 DME (IF/IAF)			YAVUC/I-RAP 7.26 DME			323.83 / 6.00 (I-RAP)			5000			CLIMB TO 3700 THEN CLIMBING RIGHT TURN TO 5500 DIRECT HELTA AND HOLD.									
												ADDITIONAL FLIGHT DATA: FAS OBST: 3359 AAO 435839N/1030054W 3480 AAO 435614N/1025951W CHART VDP AT 2.92 DME* DISTANCE VDP TO THLD 1.32 NM. *LOC ONLY. CHART CIRCLING ICON. CHART ELLSWORTH AFB. CHART PLANVIEW NOTE: RNAV 1-GPS OR RADAR REQUIRED.									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. HOLD SE HELTA, RT, 323.83 INBOUND, 5500 FT. IN LIEU OF PT (IAF)																					
3. FAC: 323.83 FAF: YAVUC/I-RAP 7.26 DME DIST FAF TO MAP: _____ THLD: 5.66																					
4. MIN. ALT: HELTA 5500, YAVUC 5000																					
5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ - 150 HAT: _____ - 100 HAT: _____ - GS ANT: 877																					
6. MIN GS INCPT: 5000 GS ALT AT: YAVUC 5000 OM: _____ - _____ MM: _____ - _____ IM: _____ -																					
7. GS ANGLE: 3.00 TCH: 54.1																					
8. MSA FROM:												MAG VAR: 8E			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 32	3360	2400	200	3360	2400	200	3360	2400	200	3360	2400	200	3360	2400	200						
S-LOC 32	3620	2400	460	3620	2400	460	3620	4500	460	3620	4500	460	3620	4500	460						
CIRCLING	3660	1	456	3840	1	636	3860	1 3/4	656	3940	2 1/4	736	3960	2 3/4	756						
NOTES: CHART NOTE: DME AND RNAV 1- GPS REQUIRED. CHART PROFILE NOTE: USE I-RAP DME WHEN ON THE LOC COURSE. CHART NOTE: ILS GLIDESLOPE UNUSABLE FOR COUPLED APPROACHES BELOW 3360. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000 AND S-LOC CAT E VISIBILITY TO 1 3/8 SM.																					
CITY AND STATE RAPID CITY, SD							ELEVATION: 3204 TDZE: 3160 AIRPORT NAME: RAPID CITY RGNL			FACILITY IDENTIFIER: I-RAP		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 32, AMDT 21 17 AUGUST 2017				SUP: AMDT: 20 DATED 01/08/2015					

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

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

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	234/30 CW 054/30 (NOPT)	234/10 CW 054/10	8500
2.	234/10 CW 054/10	HELTA (IF/IAF) (FB)	5500
3.	054/30 CW 234/30	054/10 CW 234/10	9400
4.	054/10 CW 234/10	HELTA (IF/IAF) (FO)	5500

QUALITY
22
CHECKED

CITY AND STATE

RAPID CITY, SD

ELEVATION: 3204

TDZE: 3160

AIRPORT NAME:

RAPID CITY RGNL

FACILITY
IDENTIFIER:

I-RAP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 32, AMDT 21

17 AUGUST 2017

SUP:

AMDT: 20

DATED: 01/08/2015

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		LPV: DA LNAV/VNAV: DA LNAV: RW32 CLIMB TO 3700 THEN CLIMBING RIGHT TURN TO 5500 DIRECT HELTA AND HOLD. ADDITIONAL FLIGHT DATA: FAS OBST: 3369 AAO 435829N/1030112W 3429 AAO 435722N/1025849W CHART ELLSWORTH AFB. DISTANCE TO THLD FROM 200 HAT: 0.51 NM. CHART VDP AT 1.32 NM TO RW32* *LNAV ONLY. WAAS CHANNEL # 93717 REFERENCE PATH ID: W32A CHART CIRCLING ICON. LTP HAE: 941.1 M							
HELTA (IF/IAF)		YAVUC (TF) (FB) (RNP 1.00)		323.92 / 6.00			5000									
YAVUC (FAF)		RW32 (MAP) (TF) (FO) (RNP 0.30)		323.87 / 5.66												
RW32 (MAP)		3700 MSL (CA)		323.87			3700									
3700 MSL		HELTA (DF) (FO) (RNP 1.00)					5500									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE HELTA, RT, 323.92 INBOUND, 5500 FT. IN LIEU OF PT (IAF) 3. FAC: 323.87 FAF: YAVUC DIST FAF TO MAP: 5.66 THLD: 5.66 4. MIN. ALT: HELTA 5500, YAVUC 5000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 5000 GS ALT AT: YAVUC 5000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.1 34:1 IS CLEAR 8. MSA FROM: _____											MAG VAR: 8E		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	3360	2400	200	3360	2400	200	3360	2400	200	3360	2400	200	3360	2400	200	
LNAV/VNAV DA	3410	2400	250	3410	2400	250	3410	2400	250	3410	2400	250	3410	2400	250	
LNAV MDA	3620	2400	460	3620	2400	460	3620	4500	460	3620	4500	460	3620	4500	460	
CIRCLING	3660	1	456	3840	1	636	3860	1 3/4	656	3940	2 1/4	736	3960	2 3/4	756	
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-11F) OR ABOVE 51C (125F). @ CAT D 800-2 1/4, CAT E 800-2 3/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS TO RVR 4500, AND LNAV CAT E TO 1 3/8 SM.																
CITY AND STATE RAPID CITY, SD		ELEVATION: 3204 TDZE: 3160 AIRPORT NAME: RAPID CITY RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 2 17 AUGUST 2017						SUP:				
												AMDT: 1C				
												DATED 02/05/2015				

QUALITY
 22
 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.

TAA

	FROM	TO	ALT
1.	234/30 CW 054/30 (NOPT)	234/10 CW 054/10	8500
2.	234/10 CW 054/10	HELTA (IF/IAF) (FB)	5500
3.	054/30 CW 234/30	054/10 CW 234/10	9400
4.	054/10 CW 234/10	HELTA (IF/IAF) (FO)	5500

QUALITY
22
CHECKED

CITY AND STATE RAPID CITY, SD	ELEVATION: 3204 TDZE: 3160 AIRPORT NAME: RAPID CITY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1C
				DATED: 02/05/2015

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRAP
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	440158.0495N
LTP/FTP LONGITUDE	1030257.7995W
LTP/FTP ELLIPSOIDAL HEIGHT	+09411
FPAP LATITUDE	440316.5970N
FPAP LONGITUDE	1030356.1275W
THRESHOLD CROSSING HEIGHT (TCH)	00054.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0096
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

67D54446

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+09579
FPAP ORTHOMETRIC HEIGHT	+09579

QUALITY
22
CHECKED

CITY AND STATE

RAPID CITY, SD

ELEVATION: 3204

TDZE: 3160

AIRPORT NAME:

RAPID CITY RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 32, AMDT 2

17 AUGUST 2017

SUP:

AMDT:

1C

DATED:

02/05/2015

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

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
MEMPHIS, TN	MEMPHIS INTL	17 AUGUST 2017	4A

TAKEOFF MINIMUMS:

RWY 9, 18C, 18L, 18R, 27, 36C, 36L, 36R, STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 36C - CLIMB HEADING 000.01 TO 700 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 9: LIGHT POLE 1497 FT FROM DER, 799 FT LEFT OF CENTERLINE, 43 FT AGL/342 FT MSL.

NOTE: RWY 18R: VORTAC AND ROD ON POLE BEGINNING 3209 FT FROM DER, 1019 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/412 FT MSL.

TREES 3231 FT FROM DER, 1038 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/406 FT MSL.

NOTE: RWY 27: TREES 4145 FT FROM DER, 1382 FT LEFT OF CENTERLINE, UP TO 112 FT AGL/361 FT MSL.

NOTE: RWY 36C: LIGHT POLE 1948 FT FROM DER, 928 FT RIGHT OF CENTERLINE, 77 FT AGL/336 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPEMENT:

RWY 36C: 617 FT MSL ATC TOWER 350258.68N/0895853.69W



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
MEMPHIS, TN	MEMPHIS INTL	17 AUGUST 2017	4A

REMARKS:

CONTROLLING OBSTACLE FOR RWY 36C IS NOT IN AVNIS DATABASE (SEE 2013 -ASO-75-NRA).
ABBREVIATED AMENDMENT IAW 8260.46F, APPENDIX E, PARA 14D.

FLIGHT INSPECTED BY:

Flight Inspection Review Not Required - Processed IAW Flight Inspection Team (AJW-333) Memo, May 30, 2017

OFFICE SYMBOL:

DATE:

Digitally signed by

ROBERT G HAMILTON

Jun 08, 2017

DEVELOPED BY:

THOMAS L. KIRKPATRICK

THOMAS L KIRKPATRICK II Digitally signed by THOMAS L KIRKPATRICK II
Date: 2017.05.23 13:36:01 -05'00'

OFFICE SYMBOL:

AJV-5423

DATE:

05/23/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by

ROBERT G HAMILTON

Jun 08, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☒	☒	☒	☒	☐	☒

OTHER:

ATA, MEM ATCT, AMGR

CHANGES - REASONS:

CHANGES - RWY 36C DEPARTURE HEADING CHANGED FROM 358.01 TO 000.01

REASONS - AIRPORT MAG VAR/EPOCH YEAR CHANGED FROM 1E/2000 TO 1W/2020

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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
AUSTIN, TX	AUSTIN EXECUTIVE	17 AUGUST 2017	ORIG-A

TAKEOFF MINIMUMS:

RWY 16, 34: NA - ENVIRONMENTAL.

RWY 13, 31: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 31: POLE AND TREES BEGINNING 900 FT FROM DER, 258 FT LEFT OF CENTERLINE, UP TO 669 FT MSL. TRANSMISSION LINE TOWER 1931 FT FROM DER, 911 FT RIGHT OF CENTERLINE, 83 FT AGL/670 FT MSL. TRANSMISSION LINE TOWER 2325 FT FROM DER, 878 FT RIGHT OF CENTERLINE, 89 FT AGL/682 FT MSL. POLES BEGINNING 2362 FT FROM DER, 590 FT RIGHT OF CENTERLINE, UP TO 113 FT AGL/707 FT MSL. TRANSMISSION LINE TOWER 2568 FT FROM DER, 1159 FT LEFT OF CENTERLINE, 77 FT AGL/697 FT MSL. TRANSMISSION LINE TOWER 3692 FT FROM DER, 437 FT LEFT OF CENTERLINE, 122 FT AGL/728 FT MSL. TRANSMISSION LINE TOWER 4411 FT FROM DER, 1110 FT LEFT OF CENTERLINE, 135 FT AGL/749 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

<u>FLIGHT INSPECTED BY:</u>	<i>Digitally signed by</i> ROBERT G HAMILTON Jun 01, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
Scott A Thompson		FICO	5/31/17
<u>DEVELOPED BY:</u>	<i>Digitally signed by</i> PETER R GUIMOND Mar 13, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
PETER GUIMOND		AJV-5422	03/13/2017
<u>APPROVED BY:</u>	<i>Digitally signed by</i> ROBERT G HAMILTON Jun 01, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
JULIE MORGAN		AJV-5420	

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:
ZHU, AUS APP CON, AMGR

CHANGES - REASONS:
AMENDED RWY 31 TAKEOFF OBSTACLE NOTES - GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.



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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
AUSTIN, TX	SAN MARCOS RGNL	17 AUGUST 2017	2B

TAKEOFF MINIMUMS:

RWY 8, 13, 17, 26, 31, 35: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 31: CLIMB HEADING 305.88 TO 1500 BEFORE TURNING RIGHT.

RWY 35: CLIMB HEADING 005.87 TO 2500 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 8: SIGN 1 FT FROM DER, 250 FT LEFT OF CENTERLINE, 3 FT AGL/583 FT MSL. TREE 942 FT FROM DER, 259 FT LEFT OF CENTERLINE, 612 FT MSL.

NOTE: RWY 13: TREE 2505 FT FROM DER, 194 FT RIGHT OF CENTERLINE, 71 FT AGL/637 FT MSL. TREE 2615 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 75 FT AGL/639 FT MSL. TREES BEGINNING 2639 FT FROM DER, 139 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/646 FT MSL.

NOTE: RWY 17: BUSH 26 FT FROM DER, 74 FT LEFT OF CENTERLINE, 2 FT AGL/576 FT MSL.

NOTE: RWY 26: REIL 9 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 4 FT AGL/589 FT MSL. TREE 1073 FT FROM DER, 684 FT RIGHT OF CENTERLINE, 621 FT MSL. POLES AND TREES BEGINNING 1206 FT FROM DER, 394 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/638 FT MSL.

NOTE: RWY 31: TREES BEGINNING 912 FT FROM DER, 613 FT RIGHT OF CENTERLINE, UP TO 622 FT MSL. POLE AND TREE BEGINNING 1046 FT FROM DER, 630 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/631 FT MSL. TREE 1287 FT FROM DER, 718 FT LEFT OF CENTERLINE, 627 FT MSL.

NOTE: RWY 35: SIGN 25 FT FROM DER, 198 FT LEFT OF CENTERLINE, 3 FT AGL/597 FT MSL. TREE 2562 FT FROM DER, 1113 FT LEFT OF CENTERLINE, 659 FT MSL. TREE 3227 FT FROM DER, 162 FT LEFT OF CENTERLINE, 54 FT AGL/676 FT MSL. TREES BEGINNING 3540 FT FROM DER, 51 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/687 FT MSL. TREE 3655 FT FROM DER, 362 FT RIGHT OF CENTERLINE, 54 FT AGL/692 FT MSL. TREES BEGINNING 3664 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/693 FT MSL. TREE 3727 FT FROM DER, 81 FT LEFT OF CENTERLINE, 52 FT AGL/688 FT MSL. TREE 3741 FT FROM DER, 94 FT LEFT OF CENTERLINE, 52 FT AGL/690 FT MSL. TREE 3972 FT FROM DER, 40 FT LEFT OF CENTERLINE, 48 FT AGL/696 FT MSL. TREE 4131 FT FROM DER, 37 FT RIGHT OF CENTERLINE, 42 FT AGL/699 FT MSL. TREE 4146 FT FROM DER, 33 FT RIGHT OF CENTERLINE, 43 FT AGL/700 FT MSL. POLE AND TREES BEGINNING 4150 FT FROM DER, 15 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/702 FT MSL. TREE 4209 FT FROM DER, 10 FT LEFT OF CENTERLINE, 39 FT AGL/701 FT MSL. TREE 4222 FT FROM DER, 73 FT RIGHT OF CENTERLINE, 42 FT AGL/704 FT MSL. TREE 4225 FT FROM DER, 25 FT LEFT OF CENTERLINE, 38 FT AGL/702 FT MSL. TREES BEGINNING 4229 FT FROM DER, 35 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/708 FT MSL. TREES BEGINNING 4406 FT FROM DER, 160 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/709 FT MSL. TREES BEGINNING 4426 FT FROM DER, 278 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/711 FT MSL. POLE, BUILDINGS, AND TREES BEGINNING 4435 FT FROM DER, 123 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/720 FT MSL. POLE 4450 FT FROM DER, 16 FT LEFT OF CENTERLINE, 36 FT AGL/707 FT MSL. POLE, TELEPHONE LINE, AND TREES BEGINNING 4554 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/722 FT MSL. TREE 4785 FT FROM DER, 1629 FT LEFT OF CENTERLINE, 716 FT MSL. TREES BEGINNING 5071 FT FROM DER, 1533 FT LEFT OF CENTERLINE, UP TO 49 FT AGL/738 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 31, 35: 2049 FT MSL TOWER 300243.00N/0975251.00W.

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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
AUSTIN, TX	SAN MARCOS RGNL	17 AUGUST 2017	2B

REMARKS:

RWY 35 DEPARTURE COURSE OFFSET 15 DEGREES RIGHT FROM RUNWAY CENTERLINE FOR OBSTACLE AVOIDANCE.

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON	OFFICE SYMBOL:	DATE:
Brain Harrelson	May 30, 2017	FICO	5/22/17

DEVELOPED BY:	<i>Digitally signed by</i> PETER R GUIMOND	OFFICE SYMBOL:	DATE:
PETER GUIMOND	Mar 14, 2017	AJV-5422	03/14/2017

APPROVED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON	OFFICE SYMBOL:	DATE:
JULIE MORGAN	May 30, 2017	AJV-5420	

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:

ZHU, AUS APP CON, HYI ATCT, AMGR

CHANGES - REASONS:

1. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS - GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.
2. INCORPORATED CHANGES MADE IN AMDT 2A (P-NOTAM: FDC 6/4570) - IAW FAAO 8269.19G, PARA 8-3-4C(3).

QUALITY
20
CHECKED

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

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
GEORGETOWN, TX	GEORGETOWN MUNI	17 AUGUST 2017	1A

TAKEOFF MINIMUMS:

RWY 11, 29, 36: STANDARD.

RWY 18: 200-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 1000.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 11: TREE 11 FT FROM DER, 401 FT RIGHT OF CENTERLINE, 786 FT MSL. POLES AND TREES BEGINNING 79 FT FROM DER, 136 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/796 FT MSL. BUILDING 183 FT FROM DER, 477 FT LEFT OF CENTERLINE, 776 FT MSL. POLES AND BUILDINGS BEGINNING 251 FT FROM DER, 424 FT LEFT OF CENTERLINE, UP TO 789 FT MSL. TREES BEGINNING 489 FT FROM DER, 226 FT LEFT OF CENTERLINE, UP TO 791 FT MSL. TRANSMISSION TOWERS, CATENARY, AND TELEPHONE LINE BEGINNING 2019 FT FROM DER, 27 FT LEFT OF CENTERLINE, UP TO 97 FT AGL/837 FT MSL. TRANSMISSION TOWER AND TELEPHONE LINE BEGINNING 2271 FT FROM DER, 900 FT RIGHT OF CENTERLINE, UP TO 826 FT MSL. TOWER 5361 FT FROM DER, 515 FT RIGHT OF CENTERLINE, 179 FT AGL/894 FT MSL.

NOTE: RWY 18: REIL, VEHICLES ON ROAD, AND TREE BEGINNING 30 FT FROM DER, 124 FT LEFT OF CENTERLINE, UP TO 784 FT MSL. TREE 148 FT FROM DER, 465 FT LEFT OF CENTERLINE, 33 FT AGL/787 FT MSL. TREES BEGINNING 175 FT FROM DER, 444 FT RIGHT OF CENTERLINE, UP TO 779 FT MSL. OBSTRUCTION LIGHT ON POLE, POLES, AND TREES BEGINNING 300 FT FROM DER, 38 FT LEFT OF CENTERLINE, UP TO 792 FT MSL. OBSTRUCTION LIGHT ON POLE, POLES, AND TREES BEGINNING 351 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 792 FT MSL. TRANSMISSION TOWER 3137 FT FROM DER, 1036 FT LEFT OF CENTERLINE, 90 FT AGL/835 FT MSL. ANTENNA ON WATER TOWER 1 NM FROM DER, 1158 FT RIGHT OF CENTERLINE, 163 FT AGL/932 FT MSL.

NOTE: RWY 29: BUSHES BEGINNING 10 FT FROM DER, 117 FT LEFT OF CENTERLINE, UP TO 792 FT MSL. TERRAIN 15 FT FROM DER, 91 FT RIGHT OF CENTERLINE, 790 FT MSL. TERRAIN 15 FT FROM DER, 191 FT RIGHT OF CENTERLINE, 792 FT MSL. TREES BEGINNING 89 FT FROM DER, 345 FT LEFT OF CENTERLINE, UP TO 806 FT MSL. BUSH AND TREE BEGINNING 103 FT FROM DER, 351 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/819 FT MSL. TREE 205 FT FROM DER, 403 FT LEFT OF CENTERLINE, 811 FT MSL. TREE 260 FT FROM DER, 562 FT RIGHT OF CENTERLINE, 824 FT MSL. TREES BEGINNING 296 FT FROM DER, 291 FT LEFT OF CENTERLINE, UP TO 819 FT MSL. TREES BEGINNING 331 FT FROM DER, 162 FT RIGHT OF CENTERLINE, UP TO 828 FT MSL. TREES BEGINNING 544 FT FROM DER, 22 FT RIGHT OF CENTERLINE, UP TO 833 FT MSL. TREES BEGINNING 549 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 821 FT MSL. POLE 766 FT FROM DER, 524 FT RIGHT OF CENTERLINE, 837 FT MSL. POLES AND TREES BEGINNING 787 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 826 FT MSL. POLES AND TREES BEGINNING 800 FT FROM DER, 56 FT RIGHT OF CENTERLINE, UP TO 840 FT MSL. TREE 1902 FT FROM DER, 923 FT RIGHT OF CENTERLINE, 841 FT MSL. TREES BEGINNING 1958 FT FROM DER, 563 FT RIGHT OF CENTERLINE, UP TO 844 FT MSL.

NOTE: RWY 36: BUILDING 70 FT FROM DER, 513 FT RIGHT OF CENTERLINE, 789 FT MSL. ANTENNA 104 FT FROM DER, 492 FT RIGHT OF CENTERLINE, 810 FT MSL. TERRAIN 115 FT FROM DER, 345 FT LEFT OF CENTERLINE, 789 FT MSL. TREES BEGINNING 143 FT FROM DER, 378 FT LEFT OF CENTERLINE, UP TO 18 FT AGL/810 FT MSL. POLE 269 FT FROM DER, 565 FT LEFT OF CENTERLINE, 35 FT AGL/828 FT MSL. TREES BEGINNING 284 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 818 FT MSL. TREE 322 FT FROM DER, 360 FT LEFT OF CENTERLINE, 831 FT MSL. POLE AND TREES BEGINNING 392 FT FROM DER, 301 FT LEFT OF CENTERLINE, UP TO 837 FT MSL. TOWER AND TREES BEGINNING 510 FT FROM DER, 429 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/823 FT MSL.

CONTROLLING OBSTACLES:

RWY 18: 932 FT MSL ANTENNA ON WATER TOWER 303921.13N/0974101.53W.



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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
GEORGETOWN, TX	GEORGETOWN MUNI	17 AUGUST 2017	1A

REMARKS:

RWY 18 CLIMB GRADIENT ROUNDED UP TO 250 FT PER NM FOR PUBLICATION (COMPUTED VALUE 246 FT PER NM).

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON	OFFICE SYMBOL:	DATE:
Brain Harrelson	May 30, 2017	FICO	5/22/17
DEVELOPED BY:	<i>Digitally signed by</i> PETER R GUIMOND	OFFICE SYMBOL:	DATE:
PETER GUIMOND	Mar 14, 2017	AJV-5422	03/14/2017
APPROVED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON	OFFICE SYMBOL:	DATE:
JULIE MORGAN	May 30, 2017	AJV-5420	

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:

ZHU, AUS APP CON, GTU ATCT, AMGR

CHANGES - REASONS:

1. AMENDED RWY 18 CLIMB GRADIENT FROM 244 FT PER NM TO 1000 TO READ 250 FT PER NM TO 1000 - NO CHANGE TO CONTROLLING OBSTACLE BUT CLIMB GRADIENT COMPUTED TO 246 FT PER NM USING CURRENT RWY DATA. CLIMB GRADIENT THEN ROUNDED TO NEXT HIGHEST FIVE FOOT INCREMENT TO PRECLUDE NOTAM OR AMENDMENT ACTION SHOULD RWY OR OBSTACLE DATA CHANGE SLIGHTLY.
2. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS - GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.

QUALITY
20
CHECKED

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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
LAGO VISTA, TX	LAGO VISTA TX - RUSTY ALLEN	17 AUGUST 2017	1A

TAKEOFF MINIMUMS:
STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 15: BUILDING 4 FT FROM DER, 157 FT RIGHT OF CENTERLINE, 25 FT AGL/1225 FT MSL. BUILDING AND TREES BEGINNING 18 FT FROM DER, 248 FT LEFT OF CENTERLINE, UP TO 1232 FT MSL.

NOTE: RWY 33: TREES BEGINNING 14 FT FROM DER, 158 FT RIGHT OF CENTERLINE, UP TO 1258 FT MSL. TREES BEGINNING 44 FT FROM DER, 144 FT LEFT OF CENTERLINE, UP TO 1257 FT MSL. TREES BEGINNING 173 FT FROM DER, 315 FT LEFT OF CENTERLINE, UP TO 1262 FT MSL. TREES BEGINNING 173 FT FROM DER, 235 FT RIGHT OF CENTERLINE, UP TO 1259 FT MSL. TREES BEGINNING 494 FT FROM DER, 224 FT RIGHT OF CENTERLINE, UP TO 1269 FT MSL. TREES BEGINNING 624 FT FROM DER, 274 FT LEFT OF CENTERLINE, UP TO 1270 FT MSL. TREES BEGINNING 743 FT FROM DER, 159 FT LEFT OF CENTERLINE, UP TO 1273 FT MSL. TREE 1430 FT FROM DER, 122 FT RIGHT OF CENTERLINE, 1270 FT MSL. TREE 1612 FT FROM DER, 132 FT LEFT OF CENTERLINE, 1274 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

<u>FLIGHT INSPECTED BY:</u> Brian Harrelson	<i>Digitally signed by</i> ROBERT G HAMILTON May 30, 2017	<u>OFFICE SYMBOL:</u> FICO	<u>DATE:</u> 5/22/17
<u>DEVELOPED BY:</u> PETER GUIMOND	<i>Digitally signed by</i> PETER R GUIMOND Mar 15, 2017 <i>Digitally signed by</i> ROBERT G HAMILTON May 30, 2017	<u>OFFICE SYMBOL:</u> AJV-5422	<u>DATE:</u> 03/15/2017
<u>APPROVED BY:</u> JULIE MORGAN	ROBERT G HAMILTON May 30, 2017	<u>OFFICE SYMBOL:</u> AJV-5420	<u>DATE:</u>

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☐	☒	☒	☐	☐	☒

OTHER:
ZHU, AUS APP CON, AMGR

CHANGES - REASONS:
AMENDED TAKEOFF OBSTACLE NOTES FOR RWY 15 AND RWY 33 - GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.

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		LNAV: RW18						
WODIR (IF/IAF)		FEGIP (TF) (FB) (RNP 1.00)		176.04 / 6.95				3100		CLIMB TO 3800 DIRECT UCوبا AND HOLD.						
FEGIP (FAF)		OZEYI/2.70 NM TO RW18 (TF) (FB) (RNP 0.30)		176.04 / 2.19												
OZEYI/2.70 NM TO RW18		RW18 (MAP) (TF) (FO) (RNP 0.30)		176.04 / 2.70						ADDITIONAL FLIGHT DATA: HOLD S, RT, 356.04 INBOUND. FAS OBST: 1667 TL TWR 304458N/0991059W CHART CIRCLING ICON. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. CHART BRADY AWOS-3						
RW18 (MAP)		1914 MSL (CA)		176.04												
1914 MSL		UCوبا (DF) (FO) (RNP 1.00)						3800								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD N WODIR, RT, 176.04 INBOUND, 3800 FT. IN LIEU OF PT (IAF)																
3. FAC: 176.04 FAF: FEGIP DIST FAF TO MAP: 4.89 THLD: 4.89																
4. MIN. ALT: WODIR 3800, FEGIP 3100, OZEYI/2.70 NM TO RW18 2380																
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: 5E			EPOCH YEAR: 2015			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X				
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LNAV MDA	2080	1	578	2080	1	578		NA			NA					
CIRCLING	2140	1	626	2140	1	626		NA			NA					
NOTES: CHART NOTE: RWY 18/36 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 BRADY ALTIMETER SETTING; WHEN NOT RECEIVED, USE LLANO ALTIMETER SETTING AND INCREASE ALL MDAS 20 FEET.																
CITY AND STATE MASON, TX		ELEVATION: 1514 TDZE: 1502 AIRPORT NAME: MASON COUNTY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG-C 17 AUGUST 2017				SUP: AMDT: ORIG-B 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.

TAA

	FROM	TO	ALT
1.	106/30 CW 246/30 (NOPT)	WODIR (IF/IAF) (FB)	3800
2.	246/30 CW 106/30	WODIR (IF/IAF) (FO)	3800

QUALITY
4
CHECKED

CITY AND STATE MASON, TX	ELEVATION: 1514 TDZE: 1502 AIRPORT NAME: MASON COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, ORIG-C 17 AUGUST 2017	SUP:
				AMDT: ORIG-B
				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.											
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LNAV: RW36							
UCOBA (IF/IAF)		JUTGU (TF) (FB) (RNP 1.00)		356.04 / 6.19			3100		CLIMB TO 3800 DIRECT WODIR AND HOLD.							
JUTGU (FAF)		EWETO/2.50 NM TO RW36 (TF) (FB) (RNP 0.30)		356.04 / 2.40												
EWETO/2.50 NM TO RW36		RW36 (MAP) (TF) (FO) (RNP 0.30)		356.04 / 2.50												
RW36 (MAP)		1914 MSL (CA)		356.04												
1914 MSL		WODIR (DF) (FO) (RNP 1.00)					3800		ADDITIONAL FLIGHT DATA: HOLD N, RT, 176.04 INBOUND. CHART FAS OBST: 1574 TREE 304328N/0991114W CHART CIRCLING ICON. JUTGU TO RW36: 3.00/40. CHART BRADY AWOS-3.							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD S UCOBA, RT, 356.04 INBOUND, 3800 FT. IN LIEU OF PT (IAF)																
3. FAC: 356.04 FAF: JUTGU DIST FAF TO MAP: 4.90 THLD: 4.90																
4. MIN. ALT: UCOBA 3800, JUTGU 3100, EWETO/2.50 NM TO RW36 2320																
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: 5E				EPOCH YEAR: 2015		
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X				
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LNAV MDA	1940	1	442	1940	1	442		NA			NA					
CIRCLING	2140	1	626	2140	1	626		NA			NA					
NOTES: CHART NOTE: RWY 18/36 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 BRADY ALTIMETER SETTING; WHEN NOT RECEIVED, USE LLANO ALTIMETER SETTING AND INCREASE ALL MDAS 20 FEET.																
CITY AND STATE MASON, TX		ELEVATION: 1514 TDZE: 1498 AIRPORT NAME: MASON COUNTY			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG-C 17 AUGUST 2017					SUP: AMDT: ORIG-B 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.

TAA

	FROM	TO	ALT
1.	286/30 CW 066/30 (NOPT)	UCOBA (IF/IAF) (FB)	3800
2.	066/30 CW 286/30	UCOBA (IF/IAF) (FO)	3800

QUALITY
4
CHECKED

CITY AND STATE

MASON, TX

ELEVATION: 1514

TDZE: 1498

AIRPORT NAME:

MASON COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, ORIG-C

17 AUGUST 2017

SUP:

AMDT: ORIG-B

DATED: 04/02/2015

**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.
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
MASON, TX	MASON COUNTY	17 AUGUST 2017	2

TAKEOFF MINIMUMS:

RWY 18: STANDARD

RWY 36: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 440 TO 1800.

TEXTUAL DEPARTURE PROCEDURES:

RWY 18: CLIMB HEADING 176.04 TO 2100 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 18, TREES BEGINNING 469 FT FROM DER, 87 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/1555 FT MSL.

NOTE: RWY 36, TREES BEGINNING 379 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 35 FT AGL/1538 FT MSL.

T-L TWR 3061 FT FROM DER, 1185 FT LEFT OF CENTERLINE, 95 FT AGL/1628 FT MSL.

T-L TWRS BEGINNING 3625 FT FROM DER, 193 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/1641 FT MSL.

T-L TWRS BEGINNING 4435 FT FROM DER, 303 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/1667 FT MSL.

CONTROLLING OBSTACLES:

RWY 18: 2195 FT MSL TOWER 304203.60N/0991400.20W (48-015002)

RWY 36: 1667 FT MSL T-L TOWER 304458.09N/0991058.68W (48-025403)

REMARKS:

FLIGHT INSPECTED BY:

Digitally signed by

ALLAN WILL

Jun 02, 2017

OFFICE SYMBOL:

FICO

DATE:

5/25/17

Carl Oesterle

DEVELOPED BY:

Digitally signed by

ROBERT G ABBOTT

Jan 19, 2017

OFFICE SYMBOL:

AJV-5412

DATE:

11/18/2016

ROBERT ABBOTT

APPROVED BY:

Digitally signed by

ALLAN WILL

Jun 02, 2017

OFFICE SYMBOL:

AJV-5410

DATE:

GEORGE DAVIS

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

☐☒☒☐☐☒

OTHER:

ZHU, TXDOT AVIATION DIVISION, AMGR

CHANGES - REASONS:

1. DELETE REFERENCE TO RWY 13 AND 31.
2. CHANGE RWY 18 TEXTUAL DEPARTURE PROCEDURE FROM CLIMB HEADING 181.04 TO 176.04.
3. INCREASE RWY 36 MINIMUM CLIMB FROM 299 TO 440 FT PER NM.
4. UPDATE RWY 18 TAKEOFF OBSTACLE NOTE.
5. UPDATE RWY 36 TAKEOFF OBSTACLE NOTES.

REASONS:

1. ABANDONED AND CLOSED.
2. 176.04 IS MAGNETIC HEADING FOR 5 DEGREE E (2015) MAG VAR.
3. 40:1 SURFACE CLIMB GRADIENT EVALUATION.
4. CLOSE IN VEGETATION EVALUATION.
5. CLOSE IN VEGETATION AND T-L TOWER EVALUATIONS.



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: MAHIR/LLO 20.71 DME							
LLO VORTAC (IAF)			SONNI/LLO 5.00 DME			251.49 / 5.00				4000		CLIMBING LEFT TURN TO 4000 DIRECT LLO VORTAC AND HOLD.							
SONNI/LLO 5.00 DME (IF)			CUBAZ/LLO 15.00 DME			251.49 / 10.00				4000									
										ADDITIONAL FLIGHT DATA: HOLD S, RT, 351.00 INBOUND. CHART FAS OBST: 1667 T-L TWR 304458N/0991059W CHART CIRCLING ICON. CHART BRADY AWOS-3. FAC CROSSES MIDPOINT OF RWY 18-36									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 8E EPOCH YEAR:1980									
2. PROFILE STARTS AT SONNI/LLO 5.00 DME																			
3. FAC 251.49 FAF CUBAZ/LLO 15.00 DME DIST FAF TO MAP 5.71 THLD _____																			
4. MIN. ALT SONNI 4000, CUBAZ 4000, YOKUG/LLO 19.71 DME 2400																			
8. MSA FROM: LLO VORTAC 3700																			
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		2140	1	626	2140	1	626		NA			NA							
NOTES:																			
CHART NOTE: RWY 18/36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																			
CHART NOTE: DME REQUIRED.																			
CHART NOTE: PROCEDURE NA AT NIGHT.																			
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LLO VORTAC AIRWAY RADIALS 195 CW 284.																			
CHART NOTE: USE BRADY ALTIMETER SETTING; WHEN NOT RECEIVED, USE LLANO ALTIMETER SETTING.																			
CITY AND STATE		ELEVATION: 1514			TDZE:			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP		VOR/DME-A		
MASON, TX								LLO		VOR-A, AMDT 4B					AMDT		4A		
		MASON COUNTY								17 AUGUST 2017					DATE		04/02/2015		

**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
TAYLOR, TX	TAYLOR MUNI	17 AUGUST 2017	1A

TAKEOFF MINIMUMS:
STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 17: TRANSMISSION LINE TOWERS BEGINNING 2212 FT FROM DER, 17 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/656 FT MSL. TRANSMISSION LINE TOWERS BEGINNING 2298 FT FROM DER, 463 FT RIGHT OF CENTERLINE, UP TO 85 FT AGL/649 FT MSL. TRANSMISSION LINE TOWER 2365 FT FROM DER, 1041 FT RIGHT OF CENTERLINE, 110 FT AGL/661 FT MSL.

NOTE: RWY 35: VEHICLES ON ROAD 773 FT FROM DER, 544 FT LEFT OF CENTERLINE, 630 FT MSL. POLE AND TREE BEGINNING 829 FT FROM DER, 442 FT LEFT OF CENTERLINE, UP TO 28 FT AGL/642 FT MSL. VEHICLES ON ROAD 1105 FT FROM DER, 427 FT RIGHT OF CENTERLINE, 635 FT MSL. TREE 1129 FT FROM DER, 415 FT RIGHT OF CENTERLINE, 639 FT MSL. POLES BEGINNING 1150 FT FROM DER, 474 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/644 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY:

Digitally signed by
ROBERT G HAMILTON
May 30, 2017

OFFICE SYMBOL:

FICO

DATE:

5/22/17

DEVELOPED BY:

PETER GUIMOND

Digitally signed by
PETER R GUIMOND
Mar 15, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

03/15/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
May 30, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:

ZHU, AUS APP CON, AMGR

CHANGES - REASONS:

AMENDED TAKEOFF OBSTACLE NOTES FOR RWY 17 AND RWY 35 - GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 6.76 NM AFTER SAYHO INT					
BCE VORTAC		EHK VOR/DME		264.42 / 36.85				13300		CLIMB TO 6100 THEN CLIMBING RIGHT TURN TO 9900 ON HEADING 322.00 AND EHK VOR/DME R-278.22 TO BERYL INT/EHK 16.53 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9900.					
EHK VOR/DME		JEPIL/EHK 10.71 DME		278.22 / 10.71				9100							
JEPIL/EHK 10.71 DME CW (IAF)		VELDE INT		10.71 DME ARC (EHK LR-016)				9100		**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 230 FEET PER NM TO 7300.					
MLF VORTAC (IAF)		WISEB INT/MLF 23.99 DME		153.86 / 23.99				9400							
WISEB INT/MLF 23.99 DME		VELDE INT		153.86 / 3.00 (MLF R-154)				9100		ADDITIONAL FLIGHT DATA: HOLD S, RT, 016.70 INBOUND. CHART FAS OBST: 5659 TREE 374302N/1130500W CHART EHK R-278 AT JEPIL. CHART CIRCLING ICON.					
VELDE INT (IF)		HISDU INT		200.26 / 6.00 (I-ECC)				8100							
HISDU INT		SAYHO INT		200.26 / 2.24 (I-ECC)				7800							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT VELDE															
3. FAC: 200.26 FAF: SAYHO INT DIST FAF TO MAP: 6.76 THLD: 6.76															
4. MIN. ALT: VELDE 9100, HISDU 8100, SAYHO 7800, XOJPO INT 6520*															
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1000															
6. MIN GS INCPT: 7800 GS ALT AT: SAYHO 7800 OM: - MM: - IM: -															
7. GS ANGLE: 3.00 TCH: 47.0															
8. MSA FROM: EHK VOR/DME 010-230 12600, 230-010 9400										MAG VAR: 14E			EPOCH YEAR: 1990		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X			
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 20**	5820	1/2	220	5820	1/2	220	5820	1/2	220	5820	1/2	220			
S-ILS 20#	5868	1/2	268	5868	1/2	268	5868	1/2	268	5868	1/2	268			
S-LOC 20	5960	1/2	360	5960	1/2	360	5960	5/8	360	5960	5/8	360			
CIRCLING	6000	1	378	6100	1	478	6120	1 1/2	498	6180	2	558			
NOTES: CHART NOTE: CIRCLING NA SE OF RWY 2-20. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MLF VORTAC ON V21 NORTHBOUND. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). *LOC ONLY (CONTINUED ON PAGE 2)															
CITY AND STATE CEDAR CITY, UT		ELEVATION: 5622 TDZE: 5600 AIRPORT NAME: CEDAR CITY RGNL		FACILITY IDENTIFIER: I-ECC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 20, AMDT 4B 17 AUGUST 2017						SUP: AMDT: 4A DATED 05/25/2017			



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

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NOTES, (CONT.):

CHART NOTE: #FOR INOPERATIVE ALS, INCREASE S-ILS 20 VISIBILITY ALL CATS TO 7/8 SM.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 20 CATS C/D VISIBILITY TO 1 SM.

CHART PROFILE NOTE: *DUAL VOR RECEIVERS REQUIRED.

QUALITY
4
CHECKED

CITY AND STATE

CEDAR CITY, UT

ELEVATION: 5622

TDZE: 5600

AIRPORT NAME:

CEDAR CITY RGNL

FACILITY
IDENTIFIER:
I-ECC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 20, AMDT 4B

17 AUGUST 2017

SUP:

AMDT: 4A

DATED: 05/25/2017

**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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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
CEDAR CITY, UT	CEDAR CITY RGNL	17 AUGUST 2017	3A

TAKEOFF MINIMUMS:

RWY 2, STANDARD.

RWY 8, 4200-3 FOR VCOA.

RWY 20, STANDARD WITH MINIMUM CLIMB OF 290 FT PER NM TO 7300 OR 4200-3 FOR VCOA.

RWY 26, STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 7000 OR 4200-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 2, 8: CLIMBING LEFT TURN DIRECT EHK VOR/DME, THENCE...

RWY 20, 26: CLIMBING RIGHT TURN DIRECT EHK VOR/DME, THENCE...

...CONTINUE CLIMB ON EHK VOR/DME R-278 UNTIL REACHING THE MEA/MCA FOR DIRECTION OF FLIGHT.

VISUAL CLIMB OVER AIRPORT:

RWY 8, 20, 26: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CEDAR CITY RGNL AIRPORT AT OR ABOVE 9700, THEN PROCEED ON EHK VOR/DME R-180 DIRECT EHK VOR/DME, THEN ON EHK VOR/DME R-278 UNTIL REACHING THE MEA/MCA FOR DIRECTION OF FLIGHT.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 2: SIGN ABEAM DER, 313 FT RIGHT OF CENTERLINE, 3 FT AGL/5604 FT MSL. TERRAIN AND BUSH BEGINNING 145 FT FROM DER, 420 FT RIGHT OF CENTERLINE, UP TO 5608 FT MSL.

NOTE: RWY 8: TERRAIN 3 FT FROM DER, 112 FT RIGHT OF CENTERLINE, 5622 FT MSL. TERRAIN 18 FT FROM DER, 221 FT RIGHT OF CENTERLINE, 5623 FT MSL. TERRAIN BEGINNING 30 FT FROM DER, 178 FT RIGHT OF CENTERLINE, UP TO 5624 FT MSL. TERRAIN 122 FT FROM DER, 473 FT RIGHT OF CENTERLINE, 5626 FT MSL. BUSH 125 FT FROM DER, 234 FT LEFT OF CENTERLINE, 5628 FT MSL. TERRAIN 193 FT FROM DER, 491 FT RIGHT OF CENTERLINE, 5627 FT MSL. FENCE AND VEHICLES ON ROAD BEGINNING 638 FT FROM DER, 33 FT RIGHT OF CENTERLINE, UP TO 10 FT AGL/5639 FT MSL. VEHICLES ON ROAD 686 FT FROM DER, 136 FT RIGHT OF CENTERLINE, 5640 FT MSL. VEHICLES ON ROAD 701 FT FROM DER, 242 FT RIGHT OF CENTERLINE, 5641 FT MSL. TRANSMISSION TOWER 2865 FT FROM DER, 369 FT RIGHT OF CENTERLINE, 51 FT AGL/5707 FT MSL. TRANSMISSION TOWER 2902 FT FROM DER, 260 FT RIGHT OF CENTERLINE, 53 FT AGL/5710 FT MSL. POLE AND TRANSMISSION TOWERS BEGINNING 2918 FT FROM DER, 70 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/5719 FT MSL. TRANSMISSION TOWERS BEGINNING 3004 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 49 FT AGL/5705 FT MSL. POLE 3175 FT FROM DER, 564 FT LEFT OF CENTERLINE, 56 FT AGL/5710 FT MSL.

NOTE: RWY 20, RWY LIGHT 10 FT FROM DER, 54 FT RIGHT OF CENTERLINE, 2 FT AGL/5579 FT MSL. TERRAIN 12 FT FROM DER, 98 FT LEFT OF CENTERLINE, 5579 FT MSL. RWY LIGHT AND SIGN BEGINNING 31 FT FROM DER, 275 FT LEFT OF CENTERLINE, UP TO 3 FT AGL/5583 FT MSL. POLE 941 FT FROM DER, 446 FT RIGHT OF CENTERLINE, 34 FT AGL/5604 FT MSL. POLE 1066 FT FROM DER, 363 FT RIGHT OF CENTERLINE, 38 FT AGL/5608 FT MSL. ELEVATOR AND TANK BEGINNING 2081 FT FROM DER, 1051 FT LEFT OF CENTERLINE, UP TO 105 FT AGL/5690 FT MSL. TREE 3789 FT FROM DER, 1512 FT LEFT OF CENTERLINE, 5692 FT MSL. TREE 4004 FT FROM DER, 1526 FT LEFT OF CENTERLINE, 5693 FT MSL. TREE 4265 FT FROM DER, 1530 FT LEFT OF CENTERLINE, 5718 FT MSL. TREES BEGINNING 4278 FT FROM DER, 1546 FT LEFT OF CENTERLINE, UP TO 5721 FT MSL. TREES BEGINNING 4526 FT FROM DER, 1533 FT LEFT OF CENTERLINE, UP TO 5733 FT MSL. TREES BEGINNING 4858 FT FROM DER, 1520 FT LEFT OF CENTERLINE, UP TO 5737 FT MSL. TREE 5456 FT FROM DER, 1835 FT LEFT OF CENTERLINE, 5748 FT MSL. BUILDING AND TREE BEGINNING 5497 FT FROM DER, 1518 FT LEFT OF CENTERLINE, UP TO 21 FT AGL/5759 FT MSL. POLE AND TREE BEGINNING 5737 FT FROM DER, 1543 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/5769 FT MSL. POLE AND TREE BEGINNING 5964 FT FROM DER, 1545 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/5779 FT MSL. TREES BEGINNING 1 NM FROM DER, 1665 FT LEFT OF CENTERLINE, UP TO 5783 FT MSL. TREE 1.2 NM FROM DER, 2080 FT LEFT OF CENTERLINE, 5800 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 2049 FT LEFT OF CENTERLINE, UP TO 5814 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 2107 FT LEFT OF CENTERLINE, UP TO 5836 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 2244 FT LEFT OF CENTERLINE, UP TO 5840 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 2048 FT LEFT OF CENTERLINE, UP TO 5849 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 2283 FT LEFT OF CENTERLINE, UP TO 5852 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2301 FT LEFT OF CENTERLINE, UP TO 5871 FT MSL. TREE 1.4 NM FROM DER, 2599 FT LEFT OF CENTERLINE, 5874 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2436 FT LEFT OF CENTERLINE, UP TO 5895 FT MSL. POLE AND TREE BEGINNING 1.6 NM FROM DER, 2822 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/5944 FT MSL. POLE 2.3 NM FROM DER, 3922 FT LEFT OF CENTERLINE, 34 FT AGL/5952 FT MSL.

NOTE: RWY 26, SIGN 71 FT FROM DER, 167 FT RIGHT OF CENTERLINE, 6 FT AGL/5584 FT MSL. POLE 1375 FT FROM DER, 319 FT LEFT OF CENTERLINE, 44 FT AGL/5614 FT MSL.



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TITLE 14 CFR PART 97.37**

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
CEDAR CITY, UT	CEDAR CITY RGNL	17 AUGUST 2017	3A

CONTROLLING OBSTACLES:

RWY 8: 7423 FT MSL TREE 374205.11N/1130149.13W (CLIMB GRADIENT). 8042 FT MSL AAO 374345.20N/1130009.90W (CLIMB-TO ALTITUDE).

RWY 20: 6885 FT MSL AAO 374159.20N/1131403.20W.

RWY 26: 6604 FT MSL AAO 374554.20N/1131116.50W.

RWY 8, 20, 26 (VCOA): 9239 FT MSL AAO 373830.00N/1130136.00W (VCA). 11507 FT MSL AAO 374100.00N/1124938.25W (DIVERSE).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 2, 8, 20, 26: 11507 FT MSL AAO 374100.00N/1124938.25W.



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CEDAR CITY, UT	CEDAR CITY RGNL	17 AUGUST 2017	3A

REMARKS:

1. RWY 8 COMPUTED CLIMB GRADIENT (850 FT PER NM) WAS DISAPPROVED. AFS DIRECTED VCOA ONLY.
2. RWY 20 CLIMB GRADIENT ROUNDED UP TO 290 FT PER NM FOR PUBLICATION (COMPUTED VALUE 288 FT PER NM).
3. RWY 26 CLIMB GRADIENT ROUNDED UP TO 255 FT PER NM FOR PUBLICATION (COMPUTED VALUE 253 FT PER NM).
4. PRECIPITIOUS TERRAIN ADJUSTMENT (178 FT) ADDED TO VCOA CLIMB-TO ALTITUDE.

<u>FLIGHT INSPECTED BY:</u>	<i>Digitally signed by</i> ROBERT G HAMILTON May 30, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
Brian Harrelson		FICO	5/22/17
<u>DEVELOPED BY:</u>	<i>Digitally signed by</i> PETER R GUIMOND Apr 21, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
PETER GUIMOND		AJV-5422	04/21/2017
<u>APPROVED BY:</u>	<i>Digitally signed by</i> ROBERT G HAMILTON May 30, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
JULIE MORGAN		AJV-5420	

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☒	☒	☒	☒	☐	☒

OTHER:

ZLC, AMGR.

CHANGES - REASONS:

1. AMENDED RWY 2, 8, 20, AND 26 TEXTUAL DEPARTURE THENCE INSTRUCTIONS FROM CONTINUE CLIMB ON EHK VOR/DME R-287 UNTIL REACHING THE MEA/MCA FOR DIRECTION OF FLIGHT TO READ CONTINUE CLIMB ON EHK R-278 UNTIL REACHING THE MEA/MCA FOR DIRECTION OF FLIGHT - CORRECTS TYPO ON FORM. PROCEDURE DESIGN INTENT WAS FOR AIRCRAFT TO TRACK OUTBOUND ON V293 (EHK R-278) BUT R-287 WAS INADVERTENTLY DOCUMENTED INSTEAD. OBSTACLE EVALUATION AND CLIMB GRADIENT COMPUTATIONS WERE ACCOMPLISHED USING EHK R-278 (SEE FLIGHT CHECK MAPS).
2. AMENDED RWY 8, 20, AND 26 VCOA INSTRUCTIONS FROM "...THEN ON EHK VOR/DME R-287 UNTIL REACHING THE MEA/MCA FOR DIRECTION OF FLIGHT" TO READ "...THEN ON EHK R-278 UNTIL REACHING THE MEA/MCA FOR DIRECTION OF FLIGHT" - CORRECTS TYPO ON FORM. PROCEDURE DESIGN INTENT WAS FOR AIRCRAFT TO TRACK OUTBOUND ON V293 (EHK R-278) BUT R-287 WAS INADVERTENTLY DOCUMENTED INSTEAD. OBSTACLE EVALUATION AND CLIMB GRADIENT COMPUTATIONS WERE ACCOMPLISHED USING EHK R-278 (SEE FLIGHT CHECK MAPS).

**FEDERAL AVIATION ADMINISTRATION
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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
SALT LAKE CITY, UT	SALT LAKE CITY INTL	17 AUGUST 2017	11A

TAKEOFF MINIMUMS:

RWY 14, 16R, 16L, 17, 34L, 34R, 35, STANDARD.

RWY 32, 400-1 OR STANDARD WITH MINIMUM CLIMB OF 498 FT PER NM TO 4700.

TEXTUAL DEPARTURE PROCEDURES:

RWY 14 CLIMB TO 10000 ON HEADING 191.99 AND FFU R-341 TO FFU VORTAC BEFORE PROCEEDING ON COURSE.

RWY 16R CLIMB TO 10000 ON HEADING 163.95 AND FFU R-341 TO FFU VORTAC BEFORE PROCEEDING ON COURSE.

RWY 16L CLIMB TO 10000 ON HEADING 163.95 AND FFU R-341 TO FFU VORTAC BEFORE PROCEEDING ON COURSE.

RWY 17 CLIMB TO 10000 ON HEADING 168.99 AND FFU R-341 TO FFU VORTAC BEFORE PROCEEDING ON COURSE.

RWY 32 CLIMB TO 9000 ON HEADING 002.00 AND OGD R-153 TO OGD VORTAC BEFORE PROCEEDING ON COURSE.

RWY 34L CLIMB TO 9000 ON HEADING 343.95 AND OGD R-153 TO OGD VORTAC BEFORE PROCEEDING ON COURSE.

RWY 34R CLIMB TO 9000 ON HEADING 343.96 AND OGD R-153 TO OGD VORTAC BEFORE PROCEEDING ON COURSE.

RWY 35 CLIMB TO 9000 ON HEADING 338.99 AND OGD R-153 TO OGD VORTAC BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 14, ANTENNA 1349 FT FROM DER, 544 FT LEFT OF CENTERLINE, 42 FT AGL/4263 FT MSL. NOTE: RWY 16L, VEHICLE ON ROAD 124 FT FROM DER, 14 FT RIGHT OF CENTERLINE, 15 FT AGL/4239 FT MSL. LIGHT POLE 988 FT FROM DER, 726 FT RIGHT OF CENTERLINE, 34 FT AGL/4254 FT MSL. POLE 1024 FT FROM DER, 689 FT RIGHT OF CENTERLINE, 34 FT AGL/4254 FT MSL. NOTE: RWY 17, VEHICLES ON ROAD BEGINNING 335 FT FROM DER, ON CENTERLINE, UP TO 17 FT AGL/4241 FT MSL. NOTE: RWY 32, ATC TOWER 5,266 FT FROM DER, 1767 LEFT OF CENTERLINE, 335 FT AGL/4549 FT MSL. CRANE 5196 FT FROM DER, 1630 FT LEFT OF CENTERLINE, 240 FT AGL/4463 FT MSL. FLAG ON OL 5,153 FT FROM DER, 1619 FT LEFT OF CENTERLINE, 249 FT AGL/4463 FT MSL. AIRCRAFT BEGINNING 969 FT FROM DER, 722 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/4306 FT MSL. NOTE: RWY 34R, POST 13 FT FROM DER, 349 FT RIGHT OF CENTERLINE, 3 FT AGL/4227 FT MSL. NOTE: RWY 35, POST 56 FT FROM DER, 249 FT LEFT OF CENTERLINE, 2 FT AGL/4220 FT MSL.

CONTROLLING OBSTACLES:

RWY 32: 4549 FT MSL TOWER 404747.00N/1115908.00W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWYS 14, 16R, 16L, 17, 32, 34L, 34R, 35: , 11032 MSL TRAMWAY 403340.00N/1113842.00W.

REMARKS:

ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY:

Digitally signed by

Scott A Thompson

BEV L BORDY

Jun 05, 2017

OFFICE SYMBOL:

FICO

DATE:

5/31/17

DEVELOPED BY:

Digitally signed by

SYLVAN DRAKES

BEV L BORDY

Jun 05, 2017

OFFICE SYMBOL:

AJV-5433

DATE:

03/20/2017

APPROVED BY:

Digitally signed by

PATRICK MULQUEEN

BEV L BORDY

Jun 05, 2017

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE.

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA



OTHER:

ATA, ZLC, SLC APP CON

CHANGES - REASONS:

1. UPDATED MAGNETIC VARIATION (MAG VAR) FOR SALT LAKE CITY INTERNATIONAL AIRPORT (KSLC) - UPDATED FROM 14E (EPOCH YEAR 1995) "TO" 11E (EPOCH YEAR 2020).

QUALITY
3
CHECKED

**FEDERAL AVIATION ADMINISTRATION
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SALT LAKE CITY, UT	SALT LAKE CITY INTL	17 AUGUST 2017	11A

2. CHANGED THE APOSTROPHE REPRESENTING FEET "TO" FT.
3. CHANGED VIA "TO" ON; VIA NO LONGER USED.



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		MAP: 5.34 NM AFTER DOUGY LOM OR AT I-DOF 1.11 DME						
KRSMS INT	DOUGY LOM/I-DOF 6.45 DME (TF)			105.85 / 12.78			3300		CLIMB TO 3300 THEN RIGHT TURN DIRECT DO LOM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 000.93 INBOUND. CHART FAS OBST: 1729 TREE 455515N/0894406W FAS OBST: 1839 AAO 455126N/0894331W 1889 AAO 455057N/0894303W						
RHI VOR/DME (IAF)	KAPNE INT/I-DOF 12.47 DME (NOPT)			296.12 / 12.86			3200								
KAPNE INT/I-DOF 12.47 DME (IF)	DOUGY LOM/I-DOF 6.45 DME			000.93 / 6.02 (I-DOF)			3200								
1. PT <u> R </u> SIDE OF COURSE <u> 180.93 </u> OUTBOUND <u> 3300 </u> FT WITHIN <u> 10 </u> MILES OF <u> DOUGY LOM </u> (IAF) 2. _____ 3. FAC <u> 000.93 </u> FAF <u> DOUGY LOM/I-DOF 6.45 DME </u> DIST FAF TO MAP <u> 5.34 </u> THLD <u> 5.34 </u> 4. MIN. ALT <u> DOUGY LOM 3200, EBIWE/I-DOF 2.61 DME 2100* </u> 8. MSA FROM: <u> DO LOM 360-090 3300, 090-360 4400 </u>										MAG VAR: 2W		EPOCH YEAR: 2010			
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-36	2100	1	473	2100	1	473	2100	1	473	2100	1	473			
CIRCLING	2100	1	470	2100	1	470	2200	1 1/2	570	2200	2	570			
EBIWE FIX MINIMUMS															
S-36	1980	1	353	1980	1	353	1980	1	353	1980	1	353			
CIRCLING	2100	1	470	2100	1	470	2200	1 1/2	570	2200	2	570			
NOTES: CHART NOTE: ADF REQUIRED. *2160 WHEN USING EAGLE RIVER ALTIMETER SETTING. CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-36 CATS A, B AND EBIWE FIX MINIMUMS S-36 CATS A, B, (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 1630		TDZE: 1627		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP			
MINOCQUA-WOODRUFF, WI		AIRPORT NAME:		LAKELAND/NOBLE F LEE MEMORIAL FIELD		I-DOF		LOC RWY 36, AMDT 1A 17 AUGUST 2017				AMDT 1			
												DATE 12/17/2009			



**LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.25**

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NOTES, (CONT.):

C.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-36 CAT C VISIBILITY 1/4 MILE AND EBIWE FIX MINIMUMS CAT D VISIBILITY 1/4 MILE.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EAGLE RIVER ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE S-36 CAT D VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING EAGLE RIVER ALTIMETER SETTING, INCREASE EBIWE FIX MINIMUMS CATS C, D VISIBILITY 1/4 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RHI VOR/DME AIRWAY RADIALS 241 CW 331.

QUALITY
24
CHECKED

CITY AND STATE

MINOCQUA-WOODRUFF, WI

ELEVATION: 1630

TDZE: 1627

AIRPORT NAME:

LAKELAND/NOBLE F LEE MEMORIAL FIELD

FACILITY
IDENTIFIER:

I-DOF

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC RWY 36, AMDT 1A

17 AUGUST 2017

SUP:

AMDT: 1

DATED: 12/17/2009

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		MAP: ARV NDB								
KRSMS INT			ARV NDB			080.96 / 12.68			3300		CLIMB TO 3300 THEN LEFT TURN DIRECT ARV NDB AND HOLD.								
ARV NDB			SAYNE INT			110.94 / 3.58			3300										
										ADDITIONAL FLIGHT DATA: HOLD E, RT, 290.94 INBOUND. FAS OBST: 1889 AAO 455455N/0893745W SAYNE TO RW28: 3.06/37. FAC CROSSES RWY C/L EXTENDED 2611 FT FROM THLD.									
1. PT <u>L</u> SIDE OF COURSE <u>110.94</u> OUTBOUND <u>3300</u> FT WITHIN <u>10</u> MILES OF <u>SAYNE INT</u> (IAF)																			
2.																			
3. FAC <u>290.94</u> FAF <u>SAYNE INT</u> DIST FAF TO MAP <u> </u> THLD <u>3.20</u>																			
4. MIN. ALT <u>SAYNE INT 2700</u>																			
8. MSA FROM: <u>ARV NDB 360-090 3300, 090-360 4400</u>										MAG VAR: <u>2W</u> EPOCH YEAR: <u>2010</u>									
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-28	2200	1	575	2200	1	575	2200	1 1/2	575	2200	1 3/4	575							
CIRCLING	2200	1	570	2200	1	570	2200	1 1/2	570	2200	2	570							
NOTES:																			
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EAGLE RIVER ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE S-28 CATS C AND D AND CIRCLING CAT C VISIBILITY 1/4 MILE.																			
CITY AND STATE		ELEVATION: 1630			TDZE: 1625			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP				
MINOCQUA-WOODRUFF, WI		AIRPORT NAME:						ARV		NDB RWY 28, AMDT 12A 17 AUGUST 2017					AMDT 12				
		LAKELAND/NOBLE F LEE MEMORIAL FIELD													DATE 12/17/2009				

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		LNAV: RW28 CLIMB TO 6000 DIRECT OBUVE AND ON TRACK 248.74 TO KRSMS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.52 INBOUND. FAS OBST: 1889 AAO 455455N/0893745W CHART VDP AT 1.51 NM TO RW28. ANGIW TO RW28: 3.04/37. CHART: 1989 TOWER 455320N/0893637W.							
DINER		LAVGE (TF) (FB) (RNP 2.00)		220.81 / 17.75				3400									
RHI VOR/DME		HASNI (TF) (FB) (RNP 2.00)		354.55 / 10.55				3300									
LAVGE (IAF)		FAXUV (TF) (FB) (RNP 1.00)		192.75 / 5.00				3300									
HASNI (IAF)		FAXUV (TF) (FB) (RNP 1.00)		012.71 / 5.00				3300									
FAXUV (IF)		ANGIW (TF) (FB) (RNP 1.00)		282.73 / 6.02				3200									
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FAXUV 3. FAC: <u>282.63</u> FAF: <u>ANGIW</u> DIST FAF TO MAP: <u>4.77</u> THLD: <u>4.77</u> 4. MIN. ALT: FAXUV 3300, ANGIW 3200 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: RW28 4400																	
										MAG VAR: 2W			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		
LNAV MDA	2140	1	515	2140	1	515	2140	1 1/2	515	2140	1 3/4	515					
CIRCLING	2140	1	510	2140	1	510	2200	1 1/2	570	2200	2	570					
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EAGLE RIVER ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE. CHART NOTE: VDP NA WHEN USING EAGLE RIVER ALTIMETER SETTING. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RHI VOR/DME AIRWAY RADIALS 301 CW 021.																	
CITY AND STATE MINOCQUA-WOODRUFF, WI				ELEVATION: 1630 TDZE: 1625 AIRPORT NAME: LAKELAND/NOBLE F LEE MEMORIAL FIELD				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, ORIG-A 17 AUGUST 2017				SUP:	
																AMDT: ORIG	
																DATED 12/17/2009	



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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ANGIW (FAF)	RW28 (MAP) (TF) (FO) (RNP 0.30)	282.63 / 4.77	
RW28 (MAP)	2030 MSL (CA)	282.63	
2030 MSL	OBUVE (DF) (FB) (RNP 1.00)		
OBUVE	KRSMS (TF) (FO) (RNP 1.00)	248.74 / 8.19	6000

QUALITY
24
CHECKED

CITY AND STATE
MINOCQUA-WOODRUFF, WI

ELEVATION: 1630 TDZE: 1625
AIRPORT NAME:
LAKELAND/NOBLE F LEE MEMORIAL FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 28, ORIG-A
17 AUGUST 2017

SUP:	
AMDT:	ORIG
DATED:	12/17/2009

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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		LPV: DA LNAV/VNAV: DA LNAV: RW36 CLIMB TO 3300 DIRECT MIGPY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 180.93 INBOUND. CHART FAS OBST: 1729 TREE 455517N/0894315W CHART FAS OBST: 1729 TREE 455536N/0894414W DISTANCE TO THLD FROM 321 HAT: 0.88 NM. WAAS CHANNEL # 49115 REFERENCE PATH ID: W36A LTP HAE: 463.7 M											
BAITS				JALEV (TF) (FB) (RNP 2.00)				040.73 / 32.32				3500													
RHI VOR/DME				NAVTE (TF) (FB) (RNP 2.00)				318.63 / 9.25				3200													
JALEV (IAF)				GEJUV (TF) (FB) (RNP 1.00)				090.85 / 5.00				3200													
NAVTE (IAF)				GEJUV (TF) (FB) (RNP 1.00)				271.01 / 5.00				3200													
GEJUV (IF)				CEPMU (TF) (FB) (RNP 1.00)				000.93 / 6.02				3200													
(SEE FORM 8260-10)																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT GEJUV 3. FAC: 000.93 FAF: CEPMU DIST FAF TO MAP: 4.75 THLD: 4.75 4. MIN. ALT: GEJUV 3200, CEPMU 3200, PESAE/1.70 NM TO RW36 2200* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3200 GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR 8. MSA FROM: RW36 4400																MAG VAR: 2W 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	1948	1	321	1948	1	321	1948	1	321	1948	1	321													
LNAV/VNAV DA	1999	1	372	1999	1	372	1999	1	372	1999	1	372													
LNAV MDA	1980	1	353	1980	1	353	1980	1	353	1980	1	353													
CIRCLING	2100	1	470	2100	1	470	2200	1 1/2	570	2200	2	570													
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING EAGLE RIVER ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 45C (113F). CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY (CONTINUED ON PAGE 2)																									
CITY AND STATE				ELEVATION: 1630 TDZE: 1627				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
MINOCQUA-WOODRUFF, WI				AIRPORT NAME:				RNAV (GPS) RWY 36, ORIG-A				17 AUGUST 2017				AMDT: ORIG									
				LAKELAND/NOBLE F LEE MEMORIAL FIELD												DATED 12/17/2009									



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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CEPMU (FAF)	PESAE/1.70 NM TO RW36 (TF) (FB) (RNP 0.30)	000.93 / 3.05	
PESAE/1.70 NM TO RW36	RW36 (MAP) (TF) (FO) (RNP 0.30)	000.93 / 1.70	
RW36 (MAP)	1948 MSL (CA)	000.93	
1948 MSL	MIGPY (DF) (FO) (RNP 1.00)		3300

NOTES, (CONT.):

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV CATS A, B, C.

CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS AND LNAV CAT D VISIBILITY 1/4 MILE.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EAGLE RIVER ALTIMETER SETTING AND INCREASE ALL DA 47 FEET AND ALL MDA 60 FEET AND INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV CATS A, B WHEN USING EAGLE RIVER ALTIMETER SETTING

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING EAGLE RIVER ALTIMETER SETTING, INCREASE LNAV CATS C, D VISIBILITY 1/4 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RHI VOR/DME AIRWAY RADIALS 301 CW 331.

QUALITY
24
CHECKED

CITY AND STATE

MINOCQUA-WOODRUFF, WI

ELEVATION: 1630

TDZE: 1627

AIRPORT NAME:

LAKELAND/NOBLE F LEE MEMORIAL FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, ORIG-A

17 AUGUST 2017

SUP:

AMDT: ORIG

DATED: 12/17/2009

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KARV
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	455524.9825N
LTP/FTP LONGITUDE	0894357.5340W
LTP/FTP ELLIPSOIDAL HEIGHT	+04637
FPAP LATITUDE	455654.0400N
FPAP LONGITUDE	0894359.9200W
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	1184
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 2C3B3380

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+04949
FPAP ORTHOMETRIC HEIGHT	+04949

QUALITY
24
CHECKED

CITY AND STATE MINOCQUA-WOODRUFF, WI	ELEVATION: 1630 TDZE: 1627 AIRPORT NAME: LAKELAND/NOBLE F LEE MEMORIAL FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG-A 17 AUGUST 2017	SUP:
				AMDT: ORIG
				DATED: 12/17/2009