

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 17-22

September 8, 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 17-19 on July
28, 2017, in TL 17-20 on August 11, 2017, and in TL 17-21 on August 25, 2017.**

San Andreas, CA, Calaveras Co-Maury Rasmussen Field, RNAV (GPS) RWY 31, Amdt 1
Del Norte, CO, Astronaut Kent Rominger, RNAV (GPS) RWY 24, Orig
Cedar Rapids, IA, The Eastern Iowa, ILS OR LOC RWY 9, Amdt 18C
Cedar Rapids, IA, The Eastern Iowa, ILS OR LOC RWY 27, Amdt 6E
Boise, ID, Boise Air Terminal/Gowen Fld, GOWEN THREE, Graphic DP
Fargo, ND, Hector Intl, ILS OR LOC RWY 36, Amdt 2
Ashtabula, OH, Northeast Ohio Rgnl, RNAV (GPS) RWY 9, Amdt 1
Willard, OH, Willard, VOR-A, Orig-A
Seattle, WA, Seattle-Tacoma Intl, ILS OR LOC RWY 16L, ILS RWY 16L (SA CAT I), ILS
RWY 16L (CAT II), ILS RWY 16L (CAT III), Amdt 7A
Seattle, WA, Seattle-Tacoma Intl, ILS OR LOC RWY 34C, ILS RWY 34C (SA CAT I), ILS
RWY 34C (SA CAT II), Amdt 3D
Seattle, WA, Seattle-Tacoma Intl, ILS OR LOC RWY 34L, ILS RWY 34L (SA CAT I), ILS
RWY 34L (SA CAT II), Amdt 1E
Seattle, WA, Seattle-Tacoma Intl, ILS OR LOC RWY 34R, ILS RWY 34R (SA CAT I), ILS
RWY 34R (SA CAT II), Amdt 2D
Seattle, WA, Seattle-Tacoma Intl, RNAV (GPS) Y RWY 34C, Amdt 2C
Seattle, WA, Seattle-Tacoma Intl, RNAV (GPS) Y RWY 34R, Amdt 2D
Seattle, WA, Seattle-Tacoma Intl, RNAV (RNP) Z RWY 16L, Amdt 2A
Seattle, WA, Seattle-Tacoma Intl, RNAV (RNP) Z RWY 16R, Amdt 1A
Seattle, WA, Seattle-Tacoma Intl, RNAV (RNP) Z RWY 34R, Amdt 1A
Dixon, WY, Dixon, CARBON ONE, Graphic DP
Dixon, WY, Dixon, DIXON ONE, Graphic DP

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		LP: RW31 LNAV: RW31 CLIMB TO 4400 DIRECT ZEGEX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4400. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 145.02 INBOUND. CHART FAS OBST: 1341 WSK 380831N/1203842W CHART FAS OBST: 1535 TREE 380728N/1203659W CHART 1414 TREE 380553N/1203659W. CHART VDP AT 0.75 NM TO RW31. WAAS CHANNEL # 81842 REFERENCE PATH ID: W31A CHART CIRCLING ICON. KACBY TO RW31: 3.00/31. LTP HAE: 375.7 M							
KATSO		WUBEB (TF) (FO) (RNP 2.00)			144.30 / 23.46			5200									
LIN VOR/DME		WUBEB (TF) (FO) (RNP 2.00)			086.60 / 26.16			5200									
HOFED (IAF)		WUBEB (NOPT) (TF) (FB) (RNP 1.00)			341.57 / 12.61			5200									
WUBEB (IF/IAF)		KACBY (TF) (FB) (RNP 1.00)			291.46 / 5.54			3700									
KACBY (FAF)		ZESUM/3.02 NM TO RW31 (TF) (FB) (RNP 0.30)			310.93 / 4.33												
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-20.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E WUBEB, RT, 291.46 INBOUND, 5200 FT. IN LIEU OF PT (IAF) 3. FAC: 310.93 FAF: KACBY DIST FAF TO MAP: 7.35 THLD: 7.35 4. MIN. ALT: WUBEB 5200, KACBY 3700, ZESUM/3.02 NM TO RW31 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 CLEAR 8. MSA FROM: RW31 8800																	
										MAG VAR: 15E EPOCH YEAR: 1995							
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @								
CATEGORY ==>	A			B			C			D			E				
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LP MDA	1600	1	272	1600	1	272	1600	1	272		NA						
LNAV MDA	1860	1	532	1860	1	532	1860	1 1/2	532		NA						
CIRCLING	1860	1	532	2040	1	712	2360	3	1032		NA						
NOTES: CHART NOTE: CIRCLING NA SW OF RWY 31-13. CHART NOTE: DME/DME RNP-0.3 NA.																	
CITY AND STATE SAN ANDREAS, CA							ELEVATION: 1328 TDZE: 1328 AIRPORT NAME: CALAVERAS CO-MAURY RASMUSSEN FIELD			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1 12 OCTOBER 2017			SUP: GPS RWY 31	
																AMDT: ORIG-A	
																DATED 04/13/2006	



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
ZESUM/3.02 NM TO RW31	RW31 (MAP) (TF) (FO) (RNP 0.30)	310.93 / 3.02	
RW31 (MAP)	1600 MSL (CA)	310.93	
1600 MSL	ZEGEX (DF) (FO) (RNP 1.00)		4400

QUALITY
10
CHECKED

CITY AND STATE
SAN ANDREAS, CA

ELEVATION: 1328 TDZE: 1328
AIRPORT NAME:
CALAVERAS CO-MAURY RASMUSSEN FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 31, AMDT 1
12 OCTOBER 2017

SUP: GPS RWY 31
AMDT: ORIG-A
DATED: 04/13/2006

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	KCPU
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	380831.2840N
LTP/FTP LONGITUDE	1203840.7855W
LTP/FTP ELLIPSOIDAL HEIGHT	+03757
FPAP LATITUDE	380945.1190N
FPAP LONGITUDE	1203944.1620W
THRESHOLD CROSSING HEIGHT (TCH)	00031.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1656
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
<u>CRC REMAINDER</u>	600F6C8C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+04049
FPAP ORTHOMETRIC HEIGHT	+04049

QUALITY
4
CHECKED

CITY AND STATE SAN ANDREAS, CA	ELEVATION: 1328 AIRPORT NAME: CALAVERAS CO-MAURY RASMUSSEN FIELD	TDZE: 1328 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1 12 OCTOBER 2017	SUP: GPS RWY 31
				AMDT: ORIG-A
				DATED: 04/13/2006

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		LPV: DA LNAV/VNAV: DA LNAV: RW24 CLIMB TO 8600 THEN CLIMBING LEFT TURN TO 11100 DIRECT SHERN AND ON TRACK 150.94 TO HOMME AND HOLD. **MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 310 FEET PER NM TO 9200. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 150.94 INBOUND. CHART FAS OBST: 8219 TREE 374342N/1062006W DISTANCE TO THLD FROM 250 HAT: 0.62 NM. CHART VDP AT 2.34 NM TO RW24* *LNAV ONLY. WAAS CHANNEL # 93740 REFERENCE PATH ID: W24A CHART CIRCLING ICON. LTP HAE: 2388.6 M							
LUISS (IAF)		FLUBS (NOPT) (TF) (FB) (RNP 1.00)			149.87 / 13.21			13400									
FLUBS		ICORY (TF) (FB) (RNP 1.00)			151.67 / 13.21			11100									
HOMME (IAF)		ICORY (NOPT) (TF) (FB) (RNP 1.00)			330.95 / 18.50			11100									
ICORY (IF/IAF)		ZINGS (TF) (FB) (RNP 1.00)			241.59 / 10.68			9500									
ZINGS (FAF)		RW24 (MAP) (TF) (FO) (RNP 0.30)			239.52 / 4.90												
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																	
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 8E EPOCH YEAR: 2020							
2. HOLD NE ICORY, RT, 241.59 INBOUND, 11100 FT. IN LIEU OF PT (IAF)																	
3. FAC: 239.52 FAF: ZINGS DIST FAF TO MAP: 4.90 THLD: 4.90																	
4. MIN. ALT: ICORY 11100, ZINGS 9500																	
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:																	
6. MIN GS INCPT: 9500 GS ALT AT: ZINGS 9500 OM: MM: IM:																	
7. GS ANGLE: 3.00 TCH: 51.0 34:1 IS CLEAR																	
8. MSA FROM: RW24 15100																	
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 **		8163	1	250	8163	1	250		NA			NA					
LPV DA		8220	1 1/8	307	8220	1 1/8	307		NA			NA					
LNAV/VNAV DA		8443	1 7/8	530	8443	1 7/8	530		NA			NA					
LNAV MDA		8680	1	767	8680	1 1/4	767		NA			NA					
CIRCLING		8700	1	745	8840	1 1/4	885		NA			NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -30C (-22F) OR ABOVE 54C (130F). @ CAT B 900-2 CHART NOTE: CIRCLING NA NW OF RWY 06-24. CHART NOTE: CIRCLING RWY 06 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}).																	
CITY AND STATE		ELEVATION: 7955 TDZE: 7913			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
DEL NORTE, CO		AIRPORT NAME:			ASTRONAUT KENT ROMINGER			RNAV (GPS) RWY 24, ORIG					AMDT: NONE				
								12 OCTOBER 2017					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
RW24 (MAP)	8600 MSL (CA)	239.52	8600
8600 MSL	SHERN (DF) (RNP 1.00)		
SHERN	HOMME (TF) (FO) (RNP 1.00)	150.94/13.00	11100

QUALITY
16
CHECKED

CITY AND STATE
DEL NORTE, CO

ELEVATION: 7955 TDZE: 7913
AIRPORT NAME:
ASTRONAUT KENT ROMINGER

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 24, ORIG
12 OCTOBER 2017

SUP:
AMDT: NONE
DATED:

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRCV
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	374253.7535N
LTP/FTP LONGITUDE	1062035.2390W
LTP/FTP ELLIPSOIDAL HEIGHT	+23886
FPAP LATITUDE	374219.5470N
FPAP LONGITUDE	1062218.9380W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0904
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

C7354870

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+24048
FPAP ORTHOMETRIC HEIGHT	+24048

QUALITY
16
CHECKED

CITY AND STATE

DEL NORTE, CO

ELEVATION: 7955

TDZE: 7913

AIRPORT NAME:

ASTRONAUT KENT ROMINGER

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 24, ORIG

12 OCTOBER 2017

SUP:

AMDT:

NONE

DATED:

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: 4.95 NM AFTER FONER INT/CID 2.41 DME OR AT CID VOR/DME 2.54 DME FIX									
CID VOR/DME			FONER INT/CID VOR/DME 2.41 DME			262.68 / 2.41			2500			CLIMB TO 1400 THEN CLIMB TO 2700 VIA CID VOR/DME R-082 TO LISBO/CID VOR/DME 19.08 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 2700 DIRECT IOW VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 261.60 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S IOW VOR/DME, LT, 017.00 INBOUND. CHART FAS OBST: 935 TREE 415313N/0914438W CHART IN PLANVIEW: IOW VOR/DME. CHART CID VOR/DME IN PROFILE VIEW.									
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-19.																					
1. PT L SIDE OF COURSE 268.91 OUTBOUND 2500 FT WITHIN 10 MILES OF FONER (IAF)																					
2.																					
3. FAC: 088.91 FAF: FONER INT/CID VOR/DME 2.41 DME DIST FAF TO MAP: 4.95 THLD: 4.95																					
4. MIN. ALT: FONER INT/CID VOR/DME 2.41 DME 2500, OPHAW/CID VOR/DME 0.85 DME 1360*																					
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1135																					
6. MIN GS INCPT: 2500 GS ALT AT: FONER 2500 OM: - MM: - IM: -																					
7. GS ANGLE: 3.00 TCH: 49.0																					
8. MSA FROM: CID VOR/DME 090-270 3300, 270-090 4000													MAG VAR: 2E EPOCH YEAR: 1985								
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD #			LOC: STANDARD @								
CATEGORY ==>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
S-ILS 09**	1057	2400	200	1057	2400	200	1057	2400	200	1057	2400	200									
S-LOC 09	1360	2400	503	1360	2400	503	1360	5000	503	1360	5000	503									
CIRCLING	1360	1	491	1360	1	491	1360	1 1/2	491	1420	2	551									
OPHAW FIX MINIMUMS																					
S-LOC 09	1220	2400	363	1220	2400	363	1220	2400	363	1220	4000	363									
CIRCLING	1280	1	411	1320	1	451	1320	1 1/2	451	1420	2	551									
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). *1440 WHEN USING IOWA CITY ALTIMETER SETTING. *LOC ONLY (CONTINUED ON PAGE 2)																					
CITY AND STATE CEDAR RAPIDS, IA				ELEVATION: 869 TDZE: 857 AIRPORT NAME: THE EASTERN IOWA				FACILITY IDENTIFIER: I-CID		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 9, AMDT 18C 12 OCTOBER 2017						SUP: AMDT: 18B DATED 06/23/2016					

ILS - STANDARD

INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE IOWA CITY ALTIMETER SETTING AND INCREASE

ALL DA 64 FEET AND ALL MDA 80 FEET; INCREASE S-LOC CAT D VISIBILITY TO RVR 6000. OPHAW FIX MINIMUMS:

INCREASE S-LOC CAT C VISIBILITY TO RVR 4000 AND CAT D TO RVR 6000.

CHART NOTE: WHEN USING IOWA CITY ALTIMETER SETTING, FOR INOPERATIVE MALSR, INCREASE S-ILS 9 ALL CATS VISIBILITY TO RVR 5000.

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1100 MSL.



CITY AND STATE

CEDAR RAPIDS, IA

ELEVATION: 869

TDZE: 857

AIRPORT NAME:

THE EASTERN IOWA

FACILITY
IDENTIFIER:

I-CID

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 9, AMDT 18C

12 OCTOBER 2017

SUP:

AMDT: 18B

DATED: 06/23/2016

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: 5.54 NM AFTER WAVUM INT/I-RRU 7.09 DME OR AT I-RRU 1.55 DME CLIMB TO 2900 DIRECT CID VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2900. ALTERNATE MA (DO NOT CHART): CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 2700 DIRECT IOW VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 089.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S IOW VOR/DME, LT, 017.00 INBOUND. CHART FAS OBST: 1009 TREE 415233N/0913554W CHART VDP AT 2.66 DME* DISTANCE VDP TO THLD 1.11 NM. *LOC ONLY. CHART IN PLANVIEW: IOW VOR/DME. CHART IN PLANVIEW: (CFBBB) AT 415251.16N/0912630.14W									
CID VOR/DME			WAVUM INT/I-RRU 7.09 DME			086.69 / 9.42			2700												
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-19.																					
1. PT <u>L</u> SIDE OF COURSE <u>088.93</u> OUTBOUND <u>2700</u> FT WITHIN <u>10</u> MILES OF <u>WAVUM</u> (IAF)																					
2.																					
3. FAC: <u>268.93</u> FAF: <u>WAVUM INT/7.09 DME</u> DIST FAF TO MAP: <u>5.54</u> THLD: <u>5.54</u>																					
4. MIN. ALT: <u>WAVUM INT/7.09 DME 2700</u>																					
5. DIST TO THLD FROM OM: <u>-</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>889</u>																					
6. MIN GS INCPT: <u>2700</u> GS ALT AT: <u>WAVUM 2700</u> OM: <u>-</u> MM: <u>-</u> IM: <u>-</u>																					
7. GS ANGLE: <u>3.00</u> TCH: <u>48.7</u>																					
8. MSA FROM: <u>CID VOR/DME 090-270 3300, 270-090 4000</u>																					
MAG VAR: 2E EPOCH YEAR: 1985																					
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @										
CATEGORY =====>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
S-ILS 27	1062	2400	200	1062	2400	200	1062	2400	200	1062	2400	200									
S-LOC 27	1260	2400	398	1260	2400	398	1260	3500	398	1260	3500	398									
CIRCLING	1280	1	411	1320	1	451	1320	1 1/2	451	1420	2	551									
NOTES: CHART NOTE: VDP NA WITH IOWA CITY ALTIMETER SETTING. CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1910. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE IOWA CITY ALTIMETER SETTING INCREASE DA 64 FEET AND ALL MDA 80 FEET, INCREASE S-LOC CAT C AND D VISIBILITY TO RVR 5000.																					
CITY AND STATE CEDAR RAPIDS, IA							ELEVATION: 869 TDZE: 862 AIRPORT NAME: THE EASTERN IOWA			FACILITY IDENTIFIER: I-RRU		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 6E 12 OCTOBER 2017					SUP: AMDT: 6D DATED 05/29/2014				

NA WHEN CONTROL TOWER CLOSED.
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.QUALITY
34
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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
GOWEN	THREE	GOWEN3.BOI ←	TWO	05/26/2016	12 OCTOBER 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☒	☐	☐	☐	☐

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10L/R: CLIMB HEADING 100.13 TO 3600 THEN CLIMBING RIGHT TURN HEADING 260.00, THENCE...

TAKEOFF RWY 28L/R: CLIMBING LEFT TURN HEADING 170.00, THENCE...

...INTERCEPT AND CLIMB ON BOI R-216 OUTBOUND TO CROSS FIMGU/BOI 11.00 DME FIX AT OR ABOVE 5300 THEN ON BOI R-216 INBOUND TO CROSS BOI VORTAC AT OR ABOVE MEA/MCA FOR ASSIGNED ROUTE OF FLIGHT.

VCOA RWY 10L/R: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS BOISE AIR TERMINAL/GOWEN FLD AIRPORT AT OR ABOVE BOI VORTAC MEA/MCA BEFORE PROCEEDING ON ASSIGNED 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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THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-20.

PROCEDURAL DATA NOTES:

CHART: DME REQUIRED.

TAKEOFF MINIMUMS:

RWY 28L/R: STANDARD.

RWY 10L: STANDARD WITH A MINIMUM CLIMB OF 208 FT PER NM TO 4300, OR 5500-3 FOR VCOA.

RWY 10R: STANDARD WITH A MINIMUM CLIMB OF 205 FT PER NM TO 4300, OR 5500-3 FOR VCOA.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 10L, NAVAID 5 FT FROM DER, 415 FT RIGHT OF CENTERLINE, 16 FT AGL/2880 FT MSL. BLDG AND GEN UTIL BEGINNING 270 FT FROM DER, 444 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/2888 FT MSL.

NOTE: RWY 10R, VEHICLES ON TAXIWAY BEGINNING AT DER, 455 FT RIGHT OF CENTERLINE, UP TO 10 FT AGL/2869 FT MSL.

NOTE: RWY 28L, TREE 2048 FT FROM DER, 508 FT LEFT OF CENTERLINE, 100 FT AGL/2909 FT MSL.

CONTROLLING OBSTACLES:

RWY 10L/R: 3879 FT MSL AAO 433008.96N/1160436.61W

OBSTACLE MANDATING ROUTE DEVELOPMENT: ALL RUNWAYS: 3519 FT MSL AAO 433036.74N/1160944.53W

VCOA: 3985 FT MSL AAO 433628.25N/1160732.09W

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>
GOWEN	THREE	GOWEN3.BOI ←	TWO	05/26/2016	12 OCTOBER 2017

ADDITIONAL FLIGHT DATA: ←

CHART: R-3203

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
BOISE AIR TERMINAL/GOWEN FLD	BOISE	ID

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, BOI ATCT, BOI DEP CON

FIXES AND/OR NAVAIDS:

QUALITY
3
CHECKED

**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>
GOWEN	THREE	GOWEN3.BOI ←	TWO	05/26/2016	12 OCTOBER 2017

REMARKS:
VCOA CEILING ESTABLISHED AT 5300 TO ALLOW AIRCRAFT TO REACH HIGHEST MCA (V113 AT 8200) FOR AIRWAYS OFF OF BOI VORTAC.

FLIGHT INSPECTED BY: <i>Digitally signed by</i> JAMES M MEEK Jul 24, 2017	OFFICE SYMBOL: FICO	DATE: 7/19/17
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DEVELOPED BY: <i>Digitally signed by</i> SEAN BARBEE Jun 05, 2017	OFFICE SYMBOL: AJV-5431	DATE: 04/28/2017
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APPROVED BY: <i>Digitally signed by</i> PATRICK MULQUEEN Jul 24, 2017	OFFICE SYMBOL: AJV-5430	DATE:
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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, BOI APP CON, BOI ATCT, AMGR

CHANGES - REASONS:
1. UPDATED TAKEOFF OBSTACLE NOTES - NOTES BASED ON MOST CURRENT AIRPORT SURVEY DATA, OBSTACLE SURVEY DATA, AND MAP STUDY.
2. REMOVED MERIDIAN (MPA) NDB AND DESIGNATION OF FIX FIMGU AS AN INTERSECTION BASED OFF OF MPA NDB AND BOISE (BOI) VORTAC. REMOVED NOTE "ADF OR DME REQUIRED" AND ADDED NOTE "DME REQUIRED" - MPA NDB SCHEDULED FOR DECOMMISSIONING.
3. ADDED "CHART: TOP ALTITUDE: ASSIGNED BY ATC" TO ADDITIONAL FLIGHT DATA - IAW 8260.46F, APPENDIX D, SECTION 2, PARA 10C.
4. ADDED "VCOA CEILING ESTABLISHED AT..." TO REMARKS.
5. CHANGED DP ROUTE DESCRIPTION TO READ "...THEN INBOUND ON BOI R-216 TO CROSS..." - WORD "INBOUND" ADDED TO CLARIFY ROUTE DESCRIPTION.
6. ADDED "OBSTACLE MANDATING ROUTE DEVELOPMENT" TO CONTROLLING OBSTACLES - IAW 8260.46F, APPENDIX D, SECTION 2, PARA 8C.
7. CORRECTED TAKEOFF MINIMUMS TO SHOW "VCOA" INSTEAD OF "CLIMB IN VISUAL CONDITIONS - IAW 8260.46F, APPENDIX D, SECTION 1, PARA 6C(3)(B).

09/06/2017: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/24/2017.
1. REMOVED TOP ALT FROM ADDITIONAL FLIGHT DATA.
2. CHANGED DP COMPUTER CODE FROM GOWEN3.GOWEN TO GOWEN3.BOI.

QUALITY
3
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		ILS: DA LOC: 5.80 NM AFTER OBTIE/I-FAR 7.53 DME/RADAR OR AT I-FAR 1.74 DME									
KENIE LOM/FAR VOR/DME 15.44 DME		FAR VOR/DME		181.55 / 15.42		2800		CLIMB TO 2500 DIRECT KENIE LOM AND HOLD(DME AIRCRAFT CLIMB TO 4000 ON FAR VOR/DME R-358 TO GORGY/22.00 DME AND HOLD N, RT, 178.34 INBOUND, CONTINUE CLIMB-IN-HOLD TO 4000). <u>ALTERNATE MA (DO NOT CHART):</u> CLIMB TO 2000 THEN (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD N, RT, 176.47 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE FAR VOR/DME, RT, 209.87 INBOUND. FAS OBST: 1104 AAO 465103N/0964905W CHART: 1340 TOWER 464902N/0964808W CHART VDP AT 2.96 DME* DISTANCE VDP TO THLD 1.22 NM. *LOC ONLY. CHART FAR BRG-210 AT DAYAV. CHART CIRCLING ICON. CHART: ASR CHART IN PLANVIEW: GORGY/FAR 22.00 DME CHART FAR 7.00 DME AT WOLUV. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.									
FAR VOR/DME		DAYAV/FAR VOR/DME 7.00 DME		209.88 / 7.00		2800											
DAYAV/FAR VOR/DME 7.00 DME CCW (IAF)		WOLUV/I-FAR 17.91 DME/RADAR		7.00 DME ARC (FAR LR-177)		2800											
WOLUV/I-FAR 17.91 DME/RADAR (IF)		OBTIE/I-FAR 7.53 DME/RADAR		356.47 / 10.37 (I-FAR)		2800											
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-19.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 4E EPOCH YEAR: 2005							
2. PROFILE STARTS AT WOLUV/I-FAR 17.91 DME/RADAR																	
3. FAC: 356.47 FAF: OBTIE/I-FAR 7.53 DME/RADAR DIST FAF TO MAP: 5.80 THLD: 5.80																	
4. MIN. ALT: WOLUV 2800, OBTIE 2800																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 1053																	
6. MIN GS INCPT: 2800 GS ALT AT: OBTIE 2800 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 55.0																	
8. MSA FROM: FAR VOR/DME 180-270 2800, 270-360 3200, 360-180 3600																	
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 36** ←		1099 ←	2400	200	1099 ←	2400	200	1099 ←	2400	200	1099 ←	2400	200	1099 ←	2400	200	
S-LOC 36		1360	2400	461	1360	2400	461	1360	5000	461	1360	5000	461	1360	5000	461	
CIRCLING		1380	1	479	1380	1	479	1520	1 3/4	619	1620	2 1/4	719	1620	2 1/2	719	
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: ADF OR DME REQUIRED. CHART PROFILE NOTE: USE I-FAR DME WHEN ON THE LOCALIZER COURSE. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																	
CITY AND STATE FARGO, ND		ELEVATION: 901 TDZE: 899 AIRPORT NAME: HECTOR INTL		FACILITY IDENTIFIER: I-FAR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 36, AMDT 2, 10/12/2017						SUP: AMDT: 1C DATED 11/10/2016					



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.		
MISSED APPROACH INSTRUCTIONS, (CONT.): CLIMBING LEFT TURN TO 2800 DIRECT FAR VOR/DME AND HOLD.					
NOTES, (CONT.): CHART NOTE: FOR INOPERATIVE ALS INCREASE S-ILS 36 CAT E VISIBILITY TO RVR 4000 AND S-LOC 36 CAT C/D/E VISIBILITY TO 1 3/8 SM.					
CITY AND STATE FARGO, ND		ELEVATION: 901 AIRPORT NAME: HECTOR INTL	TDZE: 899	FACILITY IDENTIFIER: I-FAR	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 36, AMDT 2, 10/12/2017
				SUP:	QUALITY 10 CHECKED
				AMDT:	1C
				DATED:	11/10/2016

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		LPV: DA LNAV/VNAV: DA LNAV: RW09 CLIMB TO 3000 DIRECT ONILE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 267.75 INBOUND. CHART FAS OBST: 1012 TREE 414653N/0804211W DISTANCE TO THLD FROM 250 HAT: 0.67 NM. CHART VDP AT 1.03 NM TO RW09* *LNAV ONLY. WAAS CHANNEL # 58013 REFERENCE PATH ID: W09A CHART CIRCLING ICON:  LTP HAE: 242.1 M												
PUYKU (IAF)				NOJWE (NOPT) (TF) (FB) (RNP 1.00)				177.42 / 8.00				2800														
KOCEQ (IAF)				NOJWE (NOPT) (TF) (FB) (RNP 1.00)				357.47 / 8.00				2800														
NOJWE (IF/IAF)				DIGAW (TF) (FB) (RNP 1.00)				087.44 / 5.00				2500														
DIGAW (FAF)				MACEN/1.60 NM TO RW09 (TF) (FB) (RNP 0.30)				087.52 / 3.26																		
MACEN/1.60 NM TO RW09 (SEE FORM 8260-10) THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-19.				RW09 (MAP) (TF) (FO) (RNP 0.30)				087.52 / 1.60																		
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 9W EPOCH YEAR: 2000												
2. HOLD W NOJWE, RT, 087.44 INBOUND, 2800 FT. IN LIEU OF PT (IAF)																										
3. FAC: 087.52 FAF: DIGAW DIST FAF TO MAP: 4.86 THLD: 4.86																										
4. MIN. ALT: NOJWE 2800, DIGAW 2500, MACEN/1.60 NM TO RW09 1460*																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: 2500 GS ALT AT: DIGAW 2500 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 45.3 34:1 IS CLEAR																										
8. MSA FROM: _____																										
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD																
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
LPV DA	1166	7/8	250	1166	7/8	250	1166	7/8	250	1166	7/8	250														
LNAV/VNAV DA	1182	7/8	266	1182	7/8	266	1182	7/8	266	1182	7/8	266														
LNAV MDA	1280	1	364	1280	1	364	1280	1	364	1280	1	364														
CIRCLING																										
	1340	1	414	1380	1	454	1500	1 1/2	574	1580	2	654														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA.																										
CITY AND STATE ASHTABULA, OH				ELEVATION: 926 TDZE: 916 AIRPORT NAME: NORTHEAST OHIO RGNL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 1, 10/12/2017					SUP: AMDT: ORIG-C DATED 04/30/2015											

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
RW09 (MAP)	1166 MSL (CA)	087.52	

1166 MSL	ONILE (DF) (FO) (RNP 1.00)		3000
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TAA

	FROM	TO	ALT
1.	357/30 CW 177/30 (NOPT)	357/10 CW 177/10	3100
2.	357/10 CW 177/10	NOJWE (IF/IAF) (FB)	2800
3.	177/30 CW 267/30	PUYKU (IF/IAF) (FB)	2800
4.	267/30 CW 357/30	267/10 CW 357/10	3000
5.	267/10 CW 357/10	KOCEQ (IF/IAF) (FB)	2800

QUALITY
18
CHECKED

CITY AND STATE ASHTABULA, OH	ELEVATION: 926	TDZE: 916	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 1, 10/12/2017	SUP:
	AIRPORT NAME: NORTHEAST OHIO RGNL				AMDT: ORIG-C
					DATED: 04/30/2015

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHZY
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	414634.2445N
LTP/FTP LONGITUDE	0804226.5360W
LTP/FTP ELLIPSOIDAL HEIGHT	+02421
FPAP LATITUDE	414651.8675N
FPAP LONGITUDE	0804029.7975W
THRESHOLD CROSSING HEIGHT (TCH)	00045.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0952
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

187687B2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02764
FPAP ORTHOMETRIC HEIGHT	+02764

QUALITY
18
CHECKED

CITY AND STATE

ASHTABULA, OH

ELEVATION: 926

TDZE: 916

AIRPORT NAME:

NORTHEAST OHIO RGNL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 9, AMDT 1, 10/12/2017

SUP:

AMDT: ORIG-C

DATED: 04/30/2015

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		MAP: MAJOJ/MFD 11.70 DME FIX							
MFD VORTAC (IF/IAF)			YUMAN/MFD VORTAC 7.50 DME			332.28 / 7.50				3000		CLIMB TO 3000 THEN RIGHT TURN DIRECT MFD VORTAC AND HOLD.							
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.										ADDITIONAL FLIGHT DATA: HOLD SE, LT, 332.00 INBOUND. FAS OBST: 1299 AAO 405757N/0824104W CHART CIRCLING ICON. FAC CROSSES MIDPOINT OF RWY 10-28.									
1. PT <u>R</u> SIDE OF COURSE <u>152.28</u> OUTBOUND <u>3000</u> FT WITHIN <u>10</u> MILES OF <u>MFD VORTAC</u> (IAF)																			
2.																			
3. FAC <u>332.28</u> FAF <u>YUMAN/MFD VORTAC 7.50 DME</u> DIST FAF TO MAP <u></u> THLD <u></u>																			
4. MIN. ALT <u>YUMAN 3000, MFD VORTAC 3000</u>																			
8. MSA FROM: <u>MFD VORTAC 3000</u>										MAG VAR: <u>3W</u> EPOCH YEAR: <u>1965</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				
CIRCLING	1680	1	713	1720	1	753	1880	2 3/4	913										
CLEVELAND-HOPKINS ALTIMETER SETTING MINIMUMS																			
CIRCLING	1720	1	753	1760	1	793	1920	3	953										
NOTES:																			
CHART NOTE: DME REQUIRED.																			
CHART NOTE: USE MANSFIELD ALTIMETER SETTING, WHEN NOT RECEIVED, USE CLEVELAND-HOPKINS ALTIMETER SETTING.																			
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON MFD VORTAC AIRWAY RADIALS 101 CW 183.																			
CITY AND STATE WILLARD, OH				ELEVATION: 967 AIRPORT NAME: WILLARD			TDZE:			FACILITY IDENTIFIER: MFD			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, ORIG-A 12 OCTOBER 2017				SUP VOR/DME OR GPS-A AMDT ORIG DATE 04/01/1993		

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: 4.43 NM AFTER DGLAS/I-SNQ 6.20 DME/RADAR OR AT I-SNQ 1.77 DME CLIMB TO 900 ON HEADING 165 THEN ON SEA VORTAC R-161 TO CROSS TEBNE/SEA 2.40 DME/RADAR AT OR BELOW 2000 THEN CLIMB TO 5000 ON SEA VORTAC R-161 TO MILLT INT/SEA 11.00 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.66 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E TCM VORTAC, RT, 261.00 INBOUND. CHART FAS OBST: 514 TREE 472836N/1221818W CHART VDP AT 2.92 DME* DISTANCE VDP TO THLD 1.15 NM. *LOC ONLY. CHART IN PLANVIEW: TCM VORTAC. CHART AT/ABOVE 6000 AT GRIFY. CHART: 696 ATC TOWER 472721N/1221805W CHART TCM R-032 AT MILLT CHART KBFI IN PLAN AND PROFILE VIEWS CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.						
PAE VOR/DME		KENMO/I-SNQ 15.94 DME/RADAR			164.89 / 13.25			5000								
KENMO/I-SNQ 15.94 DME/RADAR (IAF)		HELZR/I-SNQ 12.82 DME/RADAR			164.34 / 3.12 (I-SNQ)			4000								
GRIFY (IAF)		HELZR (TF) (FB) (RNP 1.00)			135.86 / 8.25			4000								
HELZR/I-SNQ 12.82 DME/RADAR (IF)		KARFO/I-SNQ 10.30 DME/RADAR			164.34 / 2.52 (I-SNQ)			3200								
KARFO/I-SNQ 10.30 DME/RADAR		DGLAS/I-SNQ 6.20 DME/RADAR			164.34 / 4.10 (I-SNQ)			1900								
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HELZR/I-SNQ 12.82 DME/RADAR 3. FAC: 164.34 FAF: DGLAS/I-SNQ 6.20 DME/RADAR DIST FAF TO MAP: 4.43 THLD: 4.43 4. MIN. ALT: HELZR 4000, KARFO 3200, DGLAS 1900 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: 810 150 HAT: 1805 100 HAT: 851 GS ANT: 1089 6. MIN GS INCPT: 1900 GS ALT AT: DGLAS 1900 OM: _____ - _____ MM: _____ - _____ IM: 530 7. GS ANGLE: 3.00 TCH: 55.4 8. MSA FROM: SEA VORTAC 360-160 6400, 160-250 2200, 250-360 3400																
										MAG VAR: 16E EPOCH YEAR: 2020						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD			LOC: STANDARD				
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 16L	697	2000	264	633	1800	200	633	1800	200	633	1800	200				
S-LOC 16L	880	2400	447	880	2400	447	880	4500	447	880	4500	447				
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567		NA		
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16L: CAT B, C, D, RA 248, RVR 1400, HAT 150, DA 583 MSL. CAT A NA. CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16L: CAT B, C, D, RA 176, RVR 1200, HAT 100, DA 533 MSL. CAT A NA. (CONTINUED ON PAGE 2)																
CITY AND STATE SEATTLE, WA				ELEVATION: 433 TDZE: 433 AIRPORT NAME: SEATTLE-TACOMA INTL			FACILITY IDENTIFIER: I-SNQ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 16L, AMDT 7A; ILS RWY 16L (SA CAT I) ILS RWY 16L (CAT II), ILS RWY 16L (CAT III) 12 OCTOBER 2017					SUP: AMDT: 7 DATED 10/15/2015		

QUALITY
 4
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ILS - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.		
MISSED APPROACH INSTRUCTIONS, (CONT.): <u>ALTERNATE MA (DO NOT CHART):</u> (SIMULTANEOUS OPERATIONS NA) CLIMB TO 2000 ON HEADING 163 THEN CLIMBING RIGHT TURN DIRECT TCM VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. NOTES, (CONT.): <u>CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED:</u> S-ILS 16L: CAT III CAT B, C, D, RVR 300. CAT A NA. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 16R. CHART NOTE: DME OR RADAR REQUIRED. SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 16L CAT A VISIBILITY TO RVR 4500, AND CATS B, C, D TO RVR 4000. CAT II CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN. CHART PLANVIEW NOTE ADJACENT TO GRIFY: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).					
CITY AND STATE SEATTLE, WA	ELEVATION: 433 AIRPORT NAME: SEATTLE-TACOMA INTL	TDZE: 433	FACILITY IDENTIFIER: I-SNQ	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 16L, AMDT 7A; ILS RWY 16L (SA CAT I) ILS RWY 16L (CAT II), ILS RWY 16L (CAT III) 12 OCTOBER 2017	SUP:
					AMDT: 7
					DATED: 10/15/2015



ILS - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						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: 5.72 NM AFTER TIFYS/I-TUC 6.05 DME/RADAR OR AT UFMOP/I-TUC 0.33 DME/RADAR FIX ← CLIMB ON HEADING 345 AND OUTBOUND ON SEA VORTAC R-341 TO CROSS COYLA/SEA 4.7 DME/RADAR AT OR ABOVE 3000 THEN CLIMB TO 5000 ON SEA VORTAC R-341 TO MGNUM/SEA 12.7 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ALTERNATE MA (DO NOT CHART): (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD N, RT, 161.04 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW PAE VOR/DME, RT, 149.04 INBOUND. CHART FAS OBST: 507 TREE 472529N/1221857W CHART FAS OBST: 476 TREE 472524N/1221845W CHART VDP AT 0.88 DME* DISTANCE VDP TO THLD 1.01 NM. *LOC ONLY. CHART IN PLANVIEW: PAE VOR/DME. CHART AT OR ABOVE 6000 AT SONDR. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.											
CIDUG/SEA 25.84 DME (IAF)				LORIE/I-TUC 14.21 DME/RADAR				027.00 / 3.96 (HDG) & 344.34 / 8.64 (I-TUC)				5000													
SONDR (IAF)				LORIE (TF) (FB) (RNP 1.00)				002.06 / 4.71				5000													
LORIE/I-TUC 14.21 DME (IF) /RADAR ←				ODBOE/I-TUC 11.07 DME/RADAR ←				344.34 / 3.14 (I-TUC)				4000													
ODBOE/I-TUC 11.07 DME/RADAR				TIFYS/I-TUC 6.05 DME/RADAR ←				344.34 / 5.02 (I-TUC)				2400													
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT LORIE 3. FAC: 344.34 FAF: TIFYS/I-TUC 6.05 DME/RADAR DIST FAF TO MAP: 5.72 THLD: 6.22 4. MIN. ALT: LORIE 5000, ODBOE 4000, TIFYS 2400, RYBKA/I-TUC 1.73 DME/RADAR 1000* ← 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: 1799 100 HAT: 845 GS ANT: 900 ← 6. MIN GS INCPT: 2400 GS ALT AT: TIFYS 2400 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 55.7 8. MSA FROM: SEA VORTAC 360-160 6400, 160-250 2200, 250-360 3400																MAG VAR: 16E EPOCH YEAR: 2020									
MINIMUMS																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: STANDARD				LOC: STANDARD											
CATEGORY =====>		A			B			C			D			E											
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA										
S-ILS 34C &	604	2400	217	604	2400	217	604	2400	217	604	2400	217													
S-LOC 34C	760	2400	373	760	2400	373	760	3500	373	760	3500	373													
SIDESTEP 34R	760	5000	388	760	5000	388	760	6000	388	760	6000	388													
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567													
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34C: CAT A, B, C, D, RA 231, RVR 1400, HAT 150, DA 537 MSL. SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34C: CAT A, B, C, D, RA 112, RVR 1200, HAT 100, DA 487 MSL. (CONTINUED ON PAGE 2)																									
CITY AND STATE				ELEVATION: 433				TDZE: 34C 387				FACILITY IDENTIFIER: I-TUC				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
SEATTLE, WA				AIRPORT NAME:				TDZE: 34R 372				SEATTLE-TACOMA INTL				ILS OR LOC RWY 34C, AMDT 3D; ILS RWY 34C (SA CAT I) ILS RWY 34C (SA CAT II)				AMDT: 3C					
												12 OCTOBER 2017				DATED 05/29/2014									

QUALITY
 4
 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.

MISSED APPROACH INSTRUCTIONS, (CONT.):
CLIMB TO 2000 THEN CLIMB TO 5000 DIRECT PAE VOR/DME AND HOLD.

NOTES, (CONT.):
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO ALS RWY 34R.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 34L.
CHART NOTE: DME OR RADAR REQUIRED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG ON V495 SOUTHBOUND.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI {ANGLE}/TCH {FEET}).
CHART NOTE: &RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.
CHART PLANVIEW NOTE ADJACENT TO SONDR IAF: GPS REQUIRED.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE AND USE OF HUD TO DH.
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.



CITY AND STATE SEATTLE, WA	ELEVATION: 433 AIRPORT NAME: SEATTLE-TACOMA INTL	TDZE: 34C 387 TDZE: 34R 372	FACILITY IDENTIFIER: I-TUC	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 34C, AMDT 3D; ILS RWY 34C (SA CAT I) ILS RWY 34C (SA CAT II) 12 OCTOBER 2017	SUP:
					AMDT: 3C
					DATED: 05/29/2014

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: 6.25 NM AFTER JALON/I-BEJ 6.07 DME/RADAR OR AT I-BEJ 0.18 DME CLIMB TO 900 THEN CLIMBING LEFT TURN ON HEADING 300 AND ON SEA VORTAC R-310 TO CROSS WEXUB/10 DME/RADAR AT OR ABOVE 3000, THEN CLIMB TO 5000 ON SEA VORTAC R-310 TO LOFAL/SEA 29.17 DME AND HOLD. ALTERNATE MA (DO NOT CHART): (SEE FORM 8260-10) (SIMULTANEOUS OPERATIONS NA). ADDITIONAL FLIGHT DATA: HOLD NW, LT, 130.08 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW PAE VOR/DME, RT, 149.04 INBOUND. CHART FAS OBST: 507 TREE 472529N/1221857W CHART VDP AT 0.86 DME* DISTANCE VDP TO THLD 1.03 NM. *LOC ONLY. CHART IN PLANVIEW: PAE VOR/DME. CHART IN PROFILE VIEW: I-BEJ DME ANTENNA CHART AT OR ABOVE 6000 AT SONDR CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.						
SONDR (IAF)		HIPRO (TF) (FB) (RNP 1.00)			358.43 / 4.76			5000								
CIDUG/SEA 25.84 DME (IAF)		HIPRO/I-BEJ 14.24 DME/RADAR			029.00 / 3.57 (HDG) & 344.33 / 9.05 (I-BEJ)			5000								
HIPRO/I-BEJ 14.24 DME/RADAR (IF)		JOSTA/I-BEJ 11.10 DME/RADAR			344.33 / 3.14 (I-BEJ)			4000								
JOSTA/I-BEJ 11.10 DME/RADAR		JALON/I-BEJ 6.07 DME/RADAR			344.33 / 5.02 (I-BEJ)			2400								
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HIPRO/I-BEJ 14.24 DME/RADAR 3. FAC: <u>344.33</u> FAF: <u>JALON/I-BEJ 6.07 DME/RADAR</u> DIST FAF TO MAP: <u>6.25</u> THLD: <u>6.25</u> 4. MIN. ALT: <u>HIPRO 5000, JOSTA 4000, JALON 2400, HOVOS/I-BEJ 1.83 DME/RADAR 1040*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: <u>1809</u> 100 HAT: <u>855</u> GS ANT: <u>915</u> 6. MIN GS INCPT: <u>2400</u> GS ALT AT: <u>JALON/I-BEJ 6.07 DME/RADAR 2400</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9</u> 8. MSA FROM: <u>SEA VORTAC 360-160 6400, 160-250 2200, 250-360 3400</u>																
										MAG VAR: 16E			EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD			LOC: STANDARD				
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 34L	579	2400	200	579	2400	200	579	2400	200	579	2400	200				
S-LOC 34L	760	2400	381	760	2400	381	760	4000	381	760	4000	381				
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567				
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34L: CAT A, B, C, D, RA 213, RVR 1400, HAT 150, DA 529 MSL. SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34L: CAT A, B, C, D, RA 117, RVR 1200, HAT 100, DA 479 MSL. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 433 TDZE: 379			FACILITY IDENTIFIER: I-BEJ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
SEATTLE, WA		AIRPORT NAME:			SEATTLE-TACOMA INTL		ILS OR LOC RWY 34L, AMDT 1E; ILS RWY 34L (SA CAT I) ILS RWY 34L (SA CAT II) 12 OCTOBER 2017					AMDT: 1D				
												DATED 04/28/2016				



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.

MISSED APPROACH INSTRUCTIONS, (CONT.):
CLIMB TO 2000 ON HEADING 343 THEN CLIMBING RIGHT TURN TO 5000 DIRECT PAE VOR/DME AND HOLD.

NOTES, (CONT.):
CHART NOTE: DME OR RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).
*LOC ONLY

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 34R/C

CHART IN PLANVIEW ADJACENT TO SONDR: GPS REQUIRED.

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

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG ON V495 SOUTHBOUND. ←

QUALITY
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CHECKED

CITY AND STATE SEATTLE, WA	ELEVATION: 433 TDZE: 379 AIRPORT NAME: SEATTLE-TACOMA INTL	FACILITY IDENTIFIER: I-BEJ	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 34L, AMDT 1E; ILS RWY 34L (SA CAT I) ILS RWY 34L (SA CAT II) 12 OCTOBER 2017	SUP:
				AMDT: 1D
				DATED: 04/28/2016

ILS - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							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: 5.77 NM AFTER BUCKK/I-SEA 6.34 DME/RADAR OR AT JEVUN/I-SEA 0.56 DME/RADAR FIX CLIMB ON HEADING 343 AND OUTBOUND SEA VORTAC R-341 TO CROSS COYLA/SEA 4.70 DME/RADAR AT OR ABOVE 3000 THEN CLIMB TO 5000 ON SEA VORTAC R-341 TO MGNM/SEA 12.70 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ALTERNATE MA (DO NOT CHART): (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD N, RT, 161.04 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW PAE VOR/DME, RT, 149.04 INBOUND. CHART FAS OBST: 476 TREE 472524N/1221845W CHART FAS OBST: 507 TREE 472529N/1221857W CHART VDP AT 1.19 DME* DISTANCE VDP TO THLD 0.99 NM. *LOC ONLY. CHART IN PLANVIEW: PAE VOR/DME. CHART IN PLANVIEW ADJACENT TO SONDR: GPS REQUIRED CHART AT/ABOVE 6000 AT SONDR CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.												
SONDR (IAF)				NEEAL (TF) (FB) (RNP 1.00)				014.23 / 3.14				5000														
CIDUG/SEA 25.84 DME (IAF)				NEEAL/I-SEA 15.93 DME/RADAR				029.00 / 4.12 & 344.43 / 6.75 (I-SEA)				5000														
NEEAL/I-SEA 15.93 DME/RADAR (IF)				KLEWS/I-SEA 12.50 DME/RADAR				344.34 / 3.43 (I-SEA)				4000														
KLEWS/I-SEA 12.50 DME/RADAR				BUCKK/I-SEA 6.34 DME/RADAR				344.34 / 6.17 (I-SEA)				2200														
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NEEAL/I-SEA 15.93 DME/RADAR 3. FAC: <u>344.34</u> FAF: <u>BUCKK/I-SEA 6.34 DME/RADAR</u> DIST FAF TO MAP: <u>5.77</u> THLD: <u>6.14</u> 4. MIN. ALT: <u>NEEAL 5000, KLEWS 4000, BUCKK 2200, CNNTI/I-SEA 2.39 DME/RADAR 1040*</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: <u>1884</u> 100 HAT: <u>943</u> GS ANT: <u>1135</u> 6. MIN GS INCPT: <u>2200</u> GS ALT AT: <u>BUCKK 2200</u> OM: _____ - _____ MM: _____ - _____ IM: _____ 7. GS ANGLE: <u>2.75</u> TCH: <u>59.7</u> 8. MSA FROM: <u>SEA VORTAC 360-160 6400, 160-250 2200, 250-360 3400</u>																										
										MAG VAR: 16E							EPOCH YEAR: 2020									
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD			LOC: STANDARD													
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
S-ILS 34R	572	1800	200	572	1800	200	572	1800	200	572	1800	200														
S-LOC 34R	720	2400	348	720	2400	348	720	3500	348	720	3500	348														
SIDESTEP 34C	760	5000	373	760	5000	373	760	5000	373	760	5000	373														
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567														
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34R: CAT A, B, C, D, RA 250, RVR 1400, HAT 150, DA 522 MSL. SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34R: CAT A, B, C, D, RA 200, RVR 1200, HAT 100, DA 472 MSL. (CONTINUED ON PAGE 2)																										
CITY AND STATE SEATTLE, WA				ELEVATION: 433 AIRPORT NAME: SEATTLE-TACOMA INTL		TDZE: 34R 372 TDZE: 34C 387		FACILITY IDENTIFIER: I-SEA		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 34R, AMDT 2D; ILS RWY 34R (SA CAT I) ILS RWY 34R (SA CAT II) 12 OCTOBER 2017				SUP:												
														AMDT: 2C												
														DATED 05/29/2014												

QUALITY
 4
 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.

MISSED APPROACH INSTRUCTIONS, (CONT.):

CLIMB TO 3000 THEN CLIMBING RIGHT TURN TO 5000 DIRECT PAE VOR/DME AND HOLD.

NOTES, (CONT.):

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP 34C CATS A AND B.

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

*LOC ONLY

CHART NOTE: DME OR RADAR REQUIRED.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 34 L.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG ON V495 SOUTHBOUND

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

SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF

AUTOLAND OR HUD TO TOUCHDOWN

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

QUALITY
4
CHECKED

CITY AND STATE

SEATTLE, WA

ELEVATION: 433

AIRPORT NAME:

SEATTLE-TACOMA INTL

TDZE: 34R 372

TDZE: 34C 387

FACILITY
IDENTIFIER:

I-SEA

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 34R, AMDT 2D;
ILS RWY 34R (SA CAT I)
ILS RWY 34R (SA CAT II)

12 OCTOBER 2017

SUP:

AMDT: 2C

DATED: 05/29/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW34C CLIMB TO 5000 DIRECT MGNUM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD N, RT, 164.04 INBOUND. CHART FAS OBST: 491 PWR LINE 472519N/1221751W DISTANCE TO THLD FROM 223 HAT: 0.52 NM. CHART VDP AT 1.20 NM TO RW34C* *LNAV ONLY. WAAS CHANNEL # 77710 REFERENCE PATH ID: W34B CHART AT OR ABOVE 6000 AT SONDR. LTP HAE: 87.8 M								
CIDUG	ATEVE (TF) (FB) (RNP 2.00)	028.92 / 3.96	5000									
ATEVE (IAF)	LORIE (TF) (FB) (RNP 1.00)	344.34 / 8.63	5000									
SONDR (IAF)	LORIE (TF) (FB) (RNP 1.00)	002.06 / 4.71	5000									
LORIE (IF)	ODBOE (TF) (FB) (RNP 1.00)	344.34 / 3.14	4000									
ODBOE	TIFYS (TF) (FB) (RNP 1.00)	344.34 / 5.02	2400									
(SEE FORM 8260-10) THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT LORIE 3. FAC: 344.34 FAF: TIFYS DIST FAF TO MAP: 6.22 THLD: 6.22 4. MIN. ALT: LORIE 5000, ODBOE 4000, TIFYS 2400, RYBKA/1.90 NM TO RW34C 1020* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2400 GS ALT AT: TIFYS 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.7 34:1 IS CLEAR 8. MSA FROM: RW34C 6400												
				MAG VAR: 16E EPOCH YEAR: 2020								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A								
CATEGORY =====>				STANDARD								
	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
LPV DA**	610	2400	223	610	2400	223	610	2400	223	610	2400	223
LNAV/VNAV DA	839	5000	452	839	5000	452	839	5000	452	839	5000	452
LNAV MDA	880	2400	493	880	2400	493	880	5500	493	880	5500	493
CIRCLING												
	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 34L. CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS. (CONTINUED ON PAGE 2)												
CITY AND STATE		ELEVATION: 433 TDZE: 387		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
SEATTLE, WA		AIRPORT NAME: SEATTLE-TACOMA INTL				RNAV (GPS) Y RWY 34C, AMDT 2C 12 OCTOBER 2017			AMDT: 2B			
									DATED 05/29/2014			



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
TIFY5 (FAF)	RYBKA/1.90 NM TO RW34C (TF) (FB) (RNP 0.30)	344.34 / 4.32	
RYBKA/1.90 NM TO RW34C	RW34C (MAP) (TF) (FO) (RNP 0.30)	344.34 / 1.90	
RW34C (MAP)	610 MSL (CA)	344.34	
610 MSL	MGNUM (DF) (FO) (RNP 1.00)		5000

NOTES, (CONT.):

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

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F).

CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG VIA V495 SOUTHBOUND.

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

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

QUALITY
4
CHECKED

CITY AND STATE
SEATTLE, WA

ELEVATION: 433 TDZE: 387
AIRPORT NAME:
SEATTLE-TACOMA INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 34C, AMDT 2C
12 OCTOBER 2017

SUP:
AMDT: 2B
DATED: 05/29/2014

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSEA
RUNWAY	RW34C
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34B
LTP/FTP LATITUDE	472616.6910N
LTP/FTP LONGITUDE	1221840.3600W
LTP/FTP ELLIPSOIDAL HEIGHT	+00878
FPAP LATITUDE	472749.7100N
FPAP LONGITUDE	1221839.5500W
THRESHOLD CROSSING HEIGHT (TCH)	00055.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	01E89EFE
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+01106
FPAP ORTHOMETRIC HEIGHT	+01106

QUALITY
4
CHECKED

CITY AND STATE SEATTLE, WA	ELEVATION: 433 TDZE: 387 AIRPORT NAME: SEATTLE-TACOMA INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 34C, AMDT 2C 12 OCTOBER 2017	SUP:
				AMDT: 2B
				DATED: 05/29/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW34R CLIMB TO 3000 DIRECT DODVE THEN CLIMB TO 5000 ON TRACK 343.50 TO MGNUM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD N, RT, 164.04 INBOUND. CHART FAS OBST: 574 TREE 472439N/1221742W DISTANCE TO THLD FROM 200 HAT: 0.48 NM. CHART VDP AT 1.48 NM TO RW34R* *LNAV ONLY. WAAS CHANNEL # 42710 REFERENCE PATH ID: W34D CHART AT/ABOVE 6000 AT SONDR LTP HAE: 82.8 M							
CIDUG		EBOCA (TF) (FB) (RNP 2.00)		028.92 / 4.15				5000									
SONDR (IAF)		NEEAL (TF) (FB) (RNP 1.00)		014.23 / 3.14				5000									
EBOCA (IAF)		NEEAL (TF) (FB) (RNP 1.00)		344.34 / 6.74				5000									
NEEAL (IF)		KLEWS (TF) (FB) (RNP 1.00)		344.34 / 3.43				4000									
KLEWS		BUCKK (TF) (FB) (RNP 1.00)		344.34 / 6.17				2200									
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. PROFILE STARTS AT NEEAL																	
3. FAC: 344.34 FAF: BUCKK DIST FAF TO MAP: 6.14 THLD: 6.14																	
4. MIN. ALT: NEEAL 5000, KLEWS 4000, BUCKK 2200, CNNTI/2.20 NM TO RW34R 1040*																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: 2200 GS ALT AT: BUCKK 2200 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 2.75 TCH: 59.7 34:1 IS CLEAR																	
8. MSA FROM: RW34R 6400																	
MAG VAR: 16E 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**	572	2400	200	572	2400	200	572	2400	200	572	2400	200					
LNAV/VNAV DA	915	1 1/2	543	915	1 1/2	543	915	1 1/2	543	915	1 1/2	543					
LNAV MDA	840	2400	468	840	2400	468	840	5000	468	840	5000	468					
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567					
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F) CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 433 TDZE: 372				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:			
SEATTLE, WA		AIRPORT NAME:						RNAV (GPS) Y RWY 34R, AMDT 2D						AMDT: 2C			
		SEATTLE-TACOMA INTL						12 OCTOBER 2017						DATED 09/18/2014			

QUALITY
4
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, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
BUCKK (FAF)	CNNTI/2.20 NM TO RW34R (TF) (FB) (RNP 0.30)	344.34 / 3.94	
CNNTI/2.20 NM TO RW34R	RW34R (MAP) (TF) (FO) (RNP 0.30)	344.34 / 2.20	
RW34R (MAP)	572 MSL (CA)	344.34	
572 MSL	DODVE (DF) (FB) (RNP 1.00)		3000
DODVE	MGNUM (TF) (FO) (RNP 1.00)	343.50 / 8.93	5000

NOTES, (CONT.):

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 34L

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV INCREASE CAT C AND D VISIBILITY TO 1 3/8 SM. ←

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CIDUG ON V495 SOUTHBOUND.

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

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

QUALITY
4
CHECKED

CITY AND STATE

SEATTLE, WA

ELEVATION: 433

TDZE: 372

AIRPORT NAME:

SEATTLE-TACOMA INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 34R, AMDT 2D

12 OCTOBER 2017

SUP:

AMDT: 2C

DATED: 09/18/2014

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSEA
RUNWAY	RW34R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34D
LTP/FTP LATITUDE	472552.2165N
LTP/FTP LONGITUDE	1221828.9440W
LTP/FTP ELLIPSOIDAL HEIGHT	+00828
FPAP LATITUDE	472749.6635N
FPAP LONGITUDE	1221827.9040W
THRESHOLD CROSSING HEIGHT (TCH)	00059.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	02.75
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>	7DC4AEAD
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+01057
FPAP ORTHOMETRIC HEIGHT	+01057

QUALITY
4
CHECKED

CITY AND STATE SEATTLE, WA	ELEVATION: 433 TDZE: 372 AIRPORT NAME: SEATTLE-TACOMA INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 34R, AMDT 2D 12 OCTOBER 2017	SUP:
				AMDT: 2C
				DATED: 09/18/2014

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					
PAE VOR/DME		KENMO (TF) (FB) (RNP 1.00)		168.89 / 13.25				5000		CLIMB ON TRACK 164.34 TO CROSS YORUC AT OR BELOW 2000, THEN CLIMB TO 5000 ON TRACK 163.80 TO MILLT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.					
KENMO (IAF)		HELZR (TF) (FB) (RNP 0.30)		164.34 / 3.12				4000							
GRIFY (IAF)		HELZR (TF) (FB) (RNP 1.00)		135.86 / 8.25				4000							
HELZR (IF)		KARFO (TF) (FB) (RNP 0.30)		164.34 / 2.52				3200							
KARFO		DGLAS (TF) (FB) (RNP 0.30)		164.34 / 4.10				1900		ADDITIONAL FLIGHT DATA: HOLD S, RT, 343.66 INBOUND. CHART FAS OBST: 550 TREE 472825N/1221805W DISTANCE TO THLD FROM 409 HAT: 1.11 NM. CHART MANDATORY 6000 AT GRIFY. CHART MAXIMUM 2000 AT YORUC. #TCH 487.9 MSL (DO NOT CHART) ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S CHART PLANVIEW NOTE: RADAR REQUIRED.					
(SEE FORM 8260-10)															
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 16E EPOCH YEAR: 2020					
2. PROFILE STARTS AT HELZR															
3. FAC: 164.34 FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: HELZR 4000, KARFO 3200, DGLAS 1900															
5. DIST TO THLD FROM OM: 4.43 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 1900 GS ALT AT: DGLAS 1900 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 55.4 34:1 IS CLEAR															
8. MSA FROM: RW16L 6400															
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		DH/MDA VIS HAT/HAA			
AUTHORIZATION REQUIRED															
RNP 0.30 DA		842 4500 409		842 4500 409		842 4500 409		842 4500 409		842 4500 409					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6C (22F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 16R. CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT GRIFY : MAX 210 KIAS. (CONTINUED ON PAGE 2)															
CITY AND STATE SEATTLE, WA		ELEVATION: 433 TDZE: 433 AIRPORT NAME: SEATTLE-TACOMA INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 16L, AMDT 2A 12 OCTOBER 2017				SUP: AMDT: 2 DATED 10/15/2015			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33					
TERMINAL ROUTES, (CONT.):					
FROM		TO	COURSE AND DISTANCE	ALTITUDE	
DGLAS (FAF)	RW16L (MAP) (TF) (FO) (RNP 0.30)		164.34 / 4.43		
RW16L (MAP)	YORUC (DF) (FB) (RNP 1.00)		164.34/5.74	2000	
YORUC	MILLT (TF) (FO) (RNP 1.00)		163.80 / 6.97	5000	
NOTES, (CONT.):					
CHART PLANVIEW NOTE AT PAE VOR/DME: (RNP 0.30).					
CHART PLANVIEW NOTE AT GRIFY: (RNP 0.30).					
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PAE VOR/DME AIRWAY RADIALS 163 CW 236.					
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.					
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).					
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/8 MILE.					
CITY AND STATE		ELEVATION: 433	TDZE: 433	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
SEATTLE, WA		AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 16L, AMDT 2A
		SEATTLE-TACOMA INTL			12 OCTOBER 2017
				SUP:	
				AMDT: 2	
				DATED: 10/15/2015	



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 900 THEN CLIMBING RIGHT DIRECT ZERLI TO CROSS ZERLI AT 2000 AND HOLD, WHEN AUTHORIZED BY ATC, CONTINUE CLIMB IN HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 031.00 INBOUND. DISTANCE TO THLD FROM 355 HAT: 0.94 NM. CHART MINIMUM 5900 AT PPAUL. #TCH 469.9 MSL (DO NOT CHART). CHART MANDATORY 2000 AT ZERLI. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 2: S CHART MANDATORY 6000 AT VASHN. CHART MANDATORY 6000 AT GRIFY. ROUTE TYPE QUALIFIER 1: F CHART PLANVIEW NOTE: RADAR REQUIRED.					
PAE VOR/DME			AGANE (TF) (FB) (RNP 1.00)			170.69 / 13.24			5000								
AGANE (IAF)			CELAKE (TF) (FB) (RNP 0.30)			164.33 / 3.14			4000								
GRIFY (IAF)			CELAKE (TF) (FB) (RNP 1.00)			138.34 / 8.04			4000								
CELAKE (IF)			BUGNE (TF) (FB) (RNP 0.30)			164.33 / 2.51			3200								
BUGNE			WOTIK (TF) (FB) (RNP 0.30)			164.33 / 2.64			2300								
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-21.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT WOTIK 3. FAC: <u>164.33</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: WOTIK 2300, FINKA 1900 5. DIST TO THLD FROM OM: <u>4.49</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1900</u> GS ALT AT: FINKA 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9#</u> 34:1 IS CLEAR 8. MSA FROM: RW16R 6400																	
												MAG VAR: 16E EPOCH YEAR: 2020					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD					
CATEGORY ==>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
AUTHORIZATION REQUIRED																	
RNP 0.15 DA	770	3400	355	770	3400	355	770	3400	355	770	3400	355					
RNP 0.30 DA	854	5000	439	854	5000	439	854	5000	439	854	5000	439					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6C (22F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 16L, EXCEPT FOR ARRIVALS AT PPAUL AND VASHN. CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT GRIFY : MAX 210 KIAS. (CONTINUED ON PAGE 2)																	
CITY AND STATE				ELEVATION: 433 TDZE: 415				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
SEATTLE, WA				AIRPORT NAME:								RNAV (RNP) Z RWY 16R, AMDT 1A				AMDT: 1	
				SEATTLE-TACOMA INTL								12 OCTOBER 2017				DATED 11/13/2014	

QUALITY
4
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	
PPAUL (IF)	FERIE (TF) (FB) (RNP 1.00)	146.19 / 2.78	5300	
FERIE	HEGEM (TF) (FB) (RNP 1.00)	146.21 / 3.22	5000	
HEGEM	SEGAW (RF) (FB) (RNP 1.00)	(3.15 NM RADIUS CCW (CFBRK))/3.97	3700	
VASHN (IF)	RAYUU (TF) (FB) (RNP 1.00)	344.23 / 3.10	5000	
RAYUU	SEGAW (RF) (FB) (RNP 1.00)	(2.81 NM RADIUS CW (CFDRK))/4.40	3700	
SEGAW	PINTR (RF) (FB) (RNP 1.00)	(2.80 NM RADIUS CW (CFCHS))/1.51	3200	
PINTR	WOTIK (RF) (FB) (RNP 1.00)	(2.81 NM RADIUS CW (CFDRK))/2.90	2300	
WOTIK	FINKA (TF) (FB) (RNP 0.30)	164.33 / 1.44	1900	
FINKA (FAF)	RW16R (MAP) (TF) (FO) (RNP 0.30)	164.33 / 4.49		
RW16R (MAP)	900 MSL (CA)	164.33	900	
900 MSL	ZERLI (DF) (FO) (RNP 1.00)		2000	
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT HEGEM : MAX 230 KIAS. CHART SPEED ICON IN PLANVIEW AT VASHN : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT SEGAW : MAX 210 KIAS. CHART PLANVIEW NOTE ADJACENT TO PPAUL: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO VASHN IF: RF REQUIRED. CHART PLANVIEW NOTE AT PAE VOR/DME: (RNP 0.30). CHART PLANVIEW NOTE AT GRIFY: (RNP 0.30). CHART PLANVIEW NOTE AT PPAUL: (RNP 0.30). CHART PLANVIEW NOTE AT VASHN: (RNP 0.30). CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PAE VOR/DME AIRWAY RADIALS 163 CW 236.				
CITY AND STATE	ELEVATION: 433	TDZE: 415	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
SEATTLE, WA	AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 16R, AMDT 1A
	SEATTLE-TACOMA INTL			12 OCTOBER 2017
			SUP:	
			AMDT:	1
			DATED:	11/13/2014



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					
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CAT VISIBILITY TO RVR 5800, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 SM.					
CITY AND STATE SEATTLE, WA	ELEVATION: 433 AIRPORT NAME: SEATTLE-TACOMA INTL	TDZE: 415	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 16R, AMDT 1A 12 OCTOBER 2017	SUP:
					AMDT: 1
					DATED: 11/13/2014



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										
SONDR (IAF)				NEEAL (TF) (FB) (RNP 1.00)				014.23 / 3.14				5000		CLIMB TO 5000 ON TRACK 344.34 TO CASDA AND ON TRACK 343.40 TO MGNUM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.										
NEEAL (IF)				BEKKR (TF) (FB) (RNP 0.30)				344.34 / 6.85				3000												
BEKKR				BUCKK (TF) (FB) (RNP 0.30)				344.34 / 2.74				2200												
BUCKK (FAF)				RW34R (MAP) (TF) (FO) (RNP 0.30)				344.34 / 6.14																
(SEE FORM 8260-10)														ADDITIONAL FLIGHT DATA: HOLD N, RT, 164.04 INBOUND. CHART FAS OBST: 574 TREE 472431N/1221737W CHART FAS OBST: 331 BLDG 472520N/1221809W DISTANCE TO THLD FROM 343 HAT: 1.06 NM. CHART MANDATORY 6000 AT SONDR. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 406.5 MSL (DO NOT CHART) CHART PLANVIEW NOTE: RADAR REQUIRED.										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																								
2. PROFILE STARTS AT NEEAL																								
3. FAC: 344.34 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																								
4. MIN. ALT: NEEAL 5000, BEKKR 3000, BUCKK 2200																								
5. DIST TO THLD FROM OM: 6.14 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																								
6. MIN GS INCPT: 2200 GS ALT AT: _____ OM: _____ MM: _____ IM: _____																								
7. GS ANGLE: 2.75 TCH: 59.7# 34:1 IS CLEAR																								
8. MSA FROM: RW34R 6400																								
MAG VAR: 16E EPOCH YEAR: 2020																								
MINIMUMS																								
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD															
CATEGORY ==>		A			B			C			D			E										
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA									
AUTHORIZATION REQUIRED																								
RNP 0.28 DA	715	4100	343	715	4100	343	715	4100	343	715	4100	343												
RNP 0.30 DA	880	1 1/2	508	880	1 1/2	508	880	1 1/2	508	880	1 1/2	508												
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY RWY 34L. CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT SONDR : MAX 230 KIAS. CHART PLANVIEW NOTE AT SONDR: (RNP 0.30). (CONTINUED ON PAGE 2)																								
CITY AND STATE SEATTLE, WA				ELEVATION: 433 TDZE: 372 AIRPORT NAME: SEATTLE-TACOMA INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 34R, AMDT 1A 12 OCTOBER 2017					SUP: AMDT: 1 DATED 11/13/2014									



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><thead><tr><th>FROM</th><th>TO</th><th>COURSE AND DISTANCE</th><th colspan="2">ALTITUDE</th></tr></thead><tbody><tr><td>RW34R (MAP)</td><td>CASDA (TF) (FB) (RNP 1.00)</td><td>344.34/5.00</td><td colspan="2"></td></tr><tr><td>CASDA</td><td>MGNM (TF) (FO) (RNP 1.00)</td><td>343.40/7.99</td><td colspan="2">5000</td></tr></tbody></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE		RW34R (MAP)	CASDA (TF) (FB) (RNP 1.00)	344.34/5.00			CASDA	MGNM (TF) (FO) (RNP 1.00)	343.40/7.99	5000	
FROM	TO	COURSE AND DISTANCE	ALTITUDE																
RW34R (MAP)	CASDA (TF) (FB) (RNP 1.00)	344.34/5.00																	
CASDA	MGNM (TF) (FO) (RNP 1.00)	343.40/7.99	5000																
NOTES, (CONT.): CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6C (22F) OR ABOVE 54C (130F). CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.28 ALL CATS VISIBILITY TO 1 1/4 MILE AND RNP 0.30 ALL CATS VISIBILITY TO 2 MILES. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																			
QUALITY 4 CHECKED																			
CITY AND STATE SEATTLE, WA	ELEVATION: 433 AIRPORT NAME: SEATTLE-TACOMA INTL	TDZE: 372	FACILITY IDENTIFIER: RNAV	<table><tr><td>PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 34R, AMDT 1A 12 OCTOBER 2017</td><td>SUP:</td></tr><tr><td></td><td>AMDT: 1</td></tr><tr><td></td><td>DATED: 11/13/2014</td></tr></table>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 34R, AMDT 1A 12 OCTOBER 2017	SUP:		AMDT: 1		DATED: 11/13/2014									
PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 34R, AMDT 1A 12 OCTOBER 2017	SUP:																		
	AMDT: 1																		
	DATED: 11/13/2014																		

**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>
CARBON	ONE	CRBN1.NEDAE ←			12 OCTOBER 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 DEPARTURE ORIGINALLY PUBLISHED IN TL 17-20.

DP ROUTE DESCRIPTION:

TAKEOFF RWY 6: CLIMB HEADING 061.95 TO 6973, THEN LEFT TURN DIRECT YEGUS THEN ON DEPICTED ROUTE TO NEDAE, THENCE...

... EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

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: RNAV 1

NOTE: GPS REQUIRED

TAKEOFF MINIMUMS:

RWY 6, 600-3 OR STANDARD WITH MINIMUM CLIMB OF 485 FT PER NM TO 7200

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 06: FENCE AND TERRAIN BEGINNING 47 FT FROM DER, 70 FT LEFT OF CENTERLINE, UP TO 6570 FT MSL. REILS BEGINNING 49 FT FROM DER, 77 FT LEFT AND RIGHT OF CENTERLINE, 6553 FT MSL. VEHICLE ON ROAD, TERRAIN AND FENCE BEGINNING 125 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 6570 FT MSL. VEHICLE ON ROAD 339 FT FROM DER, 415 FT RIGHT OF CENTERLINE, 6574 FT MSL. VEHICLE ON ROAD AND TERRAIN BEGINNING 414 FT FROM DER, 68 FT RIGHT OF CENTERLINE, UP TO 6576 FT MSL. VEHICLE ON ROAD 448 FT FROM DER, 106 FT RIGHT OF CENTERLINE, 6577 FT MSL. VEHICLE ON ROAD, TERRAIN AND FENCE BEGINNING 480 FT FROM DER, 15 FT RIGHT OF CENTERLINE, UP TO 6579 FT MSL. VEHICLE ON ROAD AND TERRAIN BEGINNING 520 FT FROM DER, 97 FT LEFT OF CENTERLINE, UP TO 6581 FT MSL. VEHICLE ON ROAD AND TERRAIN BEGINNING 547 FT FROM DER, 92 FT LEFT OF CENTERLINE, UP TO 6582 FT MSL. VEHICLE ON ROAD AND TERRAIN BEGINNING 697 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 6590 FT MSL. TERRAIN BEGINNING 1466 FT FROM DER, 439 FT LEFT OF CENTERLINE, UP TO 6597 FT MSL. TERRAIN AND FENCE BEGINNING 1711 FT FROM DER, 155 FT LEFT OF CENTERLINE, UP TO 6601 FT MSL. TERRAIN BEGINNING 1923 FT FROM DER, 639 FT LEFT OF CENTERLINE, UP TO 6604 FT MSL. TERRAIN 2128 FT FROM DER, 680 FT LEFT OF CENTERLINE, 6606 FT MSL. TERRAIN BEGINNING 2182 FT FROM DER, 584 FT LEFT OF CENTERLINE, UP TO 6610 FT MSL. TERRAIN BEGINNING 2366 FT FROM DER, 815 FT LEFT OF CENTERLINE, UP TO 6614 FT MSL. TERRAIN BEGINNING 2571 FT FROM DER, 959 FT LEFT OF CENTERLINE, UP TO 6622 FT MSL. TERRAIN BEGINNING 2958 FT FROM DER, 539 FT LEFT OF CENTERLINE, UP TO 6624 FT MSL. TERRAIN 3171 FT FROM DER, 598 FT LEFT OF CENTERLINE, 6630 FT MSL. TERRAIN BEGINNING 3208 FT FROM DER, 557 FT LEFT OF CENTERLINE, UP TO 6641 FT MSL. TERRAIN BEGINNING 3406 FT FROM DER, 327 FT LEFT OF CENTERLINE, UP TO 6655 FT MSL. TERRAIN 3803 FT FROM DER, 100 FT RIGHT OF CENTERLINE, 6644 FT MSL. TERRAIN 3806 FT FROM DER, 532 FT RIGHT OF CENTERLINE, 6645 FT MSL. TERRAIN BEGINNING 3816 FT FROM DER, 316 FT RIGHT OF CENTERLINE, UP TO 6649 FT MSL. TERRAIN 3622 FT FROM DER, 1059 FT LEFT OF CENTERLINE, 6659 FT MSL. TERRAIN BEGINNING 3624 FT FROM DER, 564 FT LEFT OF CENTERLINE, UP TO 6660 FT MSL. TERRAIN BEGINNING 3806 FT FROM DER, 398 FT LEFT OF CENTERLINE, UP TO 6665 FT MSL. TERRAIN BEGINNING 3838 FT FROM DER, 184 FT LEFT OF CENTERLINE, UP TO 6666 FT MSL. TERRAIN 3999 FT FROM DER, 553 FT LEFT OF CENTERLINE, 6668 FT MSL. TERRAIN 4024 FT FROM DER, 766 FT LEFT OF CENTERLINE, 6673 FT MSL. TERRAIN BEGINNING 4026 FT FROM DER, 28 FT RIGHT OF CENTERLINE, UP TO 6659 FT MSL. TERRAIN BEGINNING 4133 FT FROM DER, 720 FT RIGHT OF CENTERLINE, UP TO 6660 FT MSL. TERRAIN BEGINNING 4232 FT FROM DER, 89 FT RIGHT OF CENTERLINE, UP TO 6670 FT MSL. TERRAIN AND TREE BEGINNING 4028 FT FROM DER, 155 FT LEFT OF CENTERLINE, UP TO 6680 FT MSL. TERRAIN BEGINNING 4236 FT FROM DER, 126 FT LEFT OF CENTERLINE, UP TO 6695 FT MSL. TERRAIN BEGINNING 4391 FT FROM DER, 1327 FT LEFT OF CENTERLINE, UP TO 6712 FT MSL. TERRAIN BEGINNING 4445 FT FROM DER, 159 FT LEFT OF CENTERLINE, UP TO 6714 FT MSL. TERRAIN 4452 FT FROM DER, 305 FT RIGHT OF CENTERLINE, 6683 FT MSL. TERRAIN 4495 FT FROM DER, 535 FT RIGHT OF CENTERLINE, 6685 FT MSL. TERRAIN BEGINNING 4508 FT FROM DER, 79 FT RIGHT OF CENTERLINE, UP TO 6687 FT MSL. TERRAIN BEGINNING 4627 FT FROM DER, 459 FT LEFT OF CENTERLINE, UP TO 6745 FT MSL. TERRAIN 4676 FT FROM DER, 275 FT RIGHT OF CENTERLINE, 6696 FT MSL. TERRAIN BEGINNING 4696 FT FROM DER, 492 FT RIGHT OF CENTERLINE, UP TO 6697 FT MSL. TERRAIN AND FENCE BEGINNING 4741 FT FROM DER, 26 FT RIGHT OF

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
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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>
CARBON	ONE	CRBN1.NEDAE			12 OCTOBER 2017
CENTERLINE, UP TO 6703 FT MSL. TERRAIN BEGINNING 4756 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 6762 FT MSL. TERRAIN BEGINNING 4883 FT FROM DER, 355 FT RIGHT OF CENTERLINE, UP TO 6709 FT MSL. TERRAIN AND FENCE BEGINNING 4929 FT FROM DER, 127 FT RIGHT OF CENTERLINE, UP TO 6713 FT MSL. TERRAIN BEGINNING 5108 FT FROM DER, 425 FT RIGHT OF CENTERLINE, UP TO 6726 FT MSL. TERRAIN BEGINNING 5149 FT FROM DER, 206 FT RIGHT OF CENTERLINE, UP TO 6731 FT MSL. TERRAIN 5313 FT FROM DER, 546 FT RIGHT OF CENTERLINE, 6744 FT MSL. TERRAIN BEGINNING 5330 FT FROM DER, 139 FT LEFT OF CENTERLINE, UP TO 6770 FT MSL. TERRAIN BEGINNING 5332 FT FROM DER, 313 FT RIGHT OF CENTERLINE, UP TO 6750 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 5358 FT FROM DER, 94 FT RIGHT OF CENTERLINE, UP TO 6754 FT MSL. TERRAIN 5545 FT FROM DER, 253 FT LEFT OF CENTERLINE, 6785 FT MSL. TERRAIN 5546 FT FROM DER, 512 FT RIGHT OF CENTERLINE, 6771 FT MSL. TERRAIN BEGINNING 5550 FT FROM DER, 494 FT LEFT OF CENTERLINE, UP TO 6790 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 5551 FT FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 6781 FT MSL. VEHICLE ON ROAD 5708 FT FROM DER, 1061 FT RIGHT OF CENTERLINE, 6782 FT MSL. TERRAIN 5724 FT FROM DER, 312 FT LEFT OF CENTERLINE, 6799 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 5731 FT FROM DER, 406 FT RIGHT OF CENTERLINE, UP TO 6796 FT MSL. TERRAIN BEGINNING 5749 FT FROM DER, 84 FT LEFT OF CENTERLINE, UP TO 6806 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 5751 FT FROM DER, 159 FT RIGHT OF CENTERLINE, UP TO 6819 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 5831 FT FROM DER, 697 FT RIGHT OF CENTERLINE, UP TO 6822 FT MSL. TERRAIN, VEHICLE ON ROAD AND FENCE BEGINNING 5862 FT FROM DER, 127 FT RIGHT OF CENTERLINE, UP TO 6830 FT MSL. TERRAIN BEGINNING 5936 FT FROM DER, 124 FT LEFT OF CENTERLINE, UP TO 6825 FT MSL. VEHICLE ON ROAD 5988 FT FROM DER, 232 FT RIGHT OF CENTERLINE, 6832 FT MSL. TERRAIN, VEHICLE ON ROAD AND FENCE BEGINNING 5993 FT FROM DER, 193 FT RIGHT OF CENTERLINE, UP TO 6842 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 6044 FT FROM DER, 67 FT RIGHT OF CENTERLINE, UP TO 6845 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1 NM FROM DER, 63 FT LEFT OF CENTERLINE, UP TO 6847 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 263 FT RIGHT OF CENTERLINE, UP TO 6872 FT MSL. TERRAIN AND VEHICLE ON ROAD 1 NM FROM DER, 210 FT LEFT OF CENTERLINE, UP TO 6867 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 759 FT RIGHT OF CENTERLINE, UP TO 6873 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 66 FT RIGHT OF CENTERLINE, UP TO 6878 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 160 FT LEFT OF CENTERLINE, UP TO 6879 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 142 FT RIGHT OF CENTERLINE, UP TO 6934 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 80 FT LEFT OF CENTERLINE, UP TO 6915 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 399 FT RIGHT OF CENTERLINE, UP TO 6938 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.1 NM FROM DER, 24 FT RIGHT OF CENTERLINE, UP TO 6955 FT MSL. TERRAIN BEGINNING 1.1 NM FROM DER, 100 FT LEFT OF CENTERLINE, UP TO 6929 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.1 NM FROM DER, 207 FT RIGHT OF CENTERLINE, UP TO 6956 FT MSL. TERRAIN BEGINNING 1.1 NM FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 6942 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.1 NM FROM DER, 82 FT RIGHT OF CENTERLINE, UP TO 6957 FT MSL. TERRAIN AND VEHICLES ON ROAD BEGINNING 1.2 NM FROM DER, 448 FT RIGHT OF CENTERLINE, UP TO 6958 FT MSL. TERRAIN BEGINNING 1.2 NM FROM DER, 69 FT LEFT OF CENTERLINE, UP TO 6960 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.2 NM FROM DER, 156 FT RIGHT OF CENTERLINE, UP TO 6966 FT MSL. TERRAIN BEGINNING 1.2 NM FROM DER, 529 FT LEFT OF CENTERLINE, UP TO 6978 FT MSL. TERRAIN BEGINNING 1.2 NM FROM DER, 173 FT LEFT OF CENTERLINE, UP TO 6982 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.2 NM FROM DER, 65 FT RIGHT OF CENTERLINE, UP TO 6979 FT MSL. TERRAIN BEGINNING 1.2 NM FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 6986 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.3 NM FROM DER, 80 FT RIGHT OF CENTERLINE, UP TO 6981 FT MSL. TERRAIN AND VEHICLE ON ROAD 1.4 NM FROM DER, 127 FT RIGHT OF CENTERLINE, UP TO 6984 FT MSL. TERRAIN BEGINNING 1.4 NM FROM DER, 108 FT LEFT OF CENTERLINE, UP TO 6987 FT MSL. TERRAIN BEGINNING 1.4 NM FROM DER, 69 FT LEFT OF CENTERLINE, UP TO 6991 FT MSL. TERRAIN BEGINNING 1.4 NM FROM DER, 57 FT LEFT OF CENTERLINE, UP TO 6996 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.5 NM FROM DER, 165 FT RIGHT OF CENTERLINE, UP TO 6985 FT MSL. TERRAIN BEGINNING 1.5 NM FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 7006 FT MSL. TERRAIN AND VEHICLE ON ROAD BEGINNING 1.5 NM FROM DER, 177 FT RIGHT OF CENTERLINE, UP TO 6989 FT MSL. TERRAIN, VEHICLE ON ROAD AND BUILDING BEGINNING 1.5 NM FROM DER, 324 FT RIGHT OF CENTERLINE, UP TO 6999 FT MSL. TERRAIN, VEHICLE ON ROAD, TRANSMISSION LINE TOWERS AND TREE BEGINNING 1.5 NM FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 7002 FT MSL. TERRAIN AND TREE BEGINNING 1.6 NM FROM DER, 916 FT LEFT OF CENTERLINE, UP TO 7007 FT MSL. TERRAIN AND TREE BEGINNING 1.6 NM FROM DER, 239 FT LEFT OF CENTERLINE, UP TO 7028 FT MSL. TERRAIN BEGINNING 1.6 NM FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 7038 FT MSL. FENCE, TREE, AND TERRAIN BEGINNING 1.6 NM FROM DER, 669 FT LEFT OF CENTERLINE, UP TO 7066 FT MSL. TERRAIN AND TREES BEGINNING 1.6 NM FROM DER, 58 FT LEFT OF CENTERLINE, UP TO 7070 FT MSL. TERRAIN BEGINNING 1.7 NM FROM DER, 263 FT LEFT OF CENTERLINE, UP TO 7079 FT MSL. TREES, TERRAIN, BUILDING AND VEHICLE ON ROAD BEGINNING 1.8 NM FROM DER, 193 FT LEFT OF CENTERLINE, UP TO 7097 FT MSL. VEHICLE ON ROAD 2 NM FROM DER, 2162 FT LEFT OF CENTERLINE, 7099 FT MSL. VEHICLE ON ROAD 2 NM FROM DER, 2350 FT LEFT OF CENTERLINE, 7104 FT MSL. VEHICLE ON ROAD AND TERRAIN BEGINNING 2 NM FROM DER, 80 FT LEFT OF CENTERLINE, UP TO 7117 FT MSL. TERRAIN BEGINNING 2.3 NM FROM DER, 1040 FT LEFT OF CENTERLINE, UP TO 7123 FT MSL. TERRAIN BEGINNING 2.4 NM FROM DER, 2327 FT LEFT OF CENTERLINE, UP TO 7100 FT MSL.					



**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>
CARBON	ONE	CRBN1.NEDAE			12 OCTOBER 2017

CONTROLLING OBSTACLES:

RWY 6: 6955 FEET MSL VEHICLE ON ROAD 410245.74N/1072726.30W (CG, CGTA). 7123 FEET MSL GRD 410347.80N/1072613.18W (CEILING). 7100 FEET MSL GRD 410350.01N/1072601.83W (VISIBILITY).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 10728 FEET MSL AAO 405000.00N/1072318.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KDWX 9E EPOCH YR: 2020.

DME/DME ASSESSMENT: NOT CONDUCTED.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
DIXON	DIXON	WY

COMMUNICATIONS:

AWOS, CTAF, ZDV

FIXES AND/OR NAVAIDS:

REMARKS:



**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>
CARBON	ONE	CRBN1.NEDAE ←			12 OCTOBER 2017

FLIGHT INSPECTED BY:

JAMES M MEEK

Digitally signed by

BEV L BORDY

Aug 01, 2017

OFFICE SYMBOL:

FICO

DATE:

7/18/17

DEVELOPED BY:

BEVERLY BORDY (MICHAEL GARRITY)

Digitally signed by

BEV L BORDY

Aug 01, 2017

OFFICE SYMBOL:

AJV-5433

DATE:

05/08/2017

APPROVED BY:

PATRICK MULQUEEN

Digitally signed by

BEV L BORDY

Aug 01, 2017

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH AIRSPACE DOCKET 17-ANM-5

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA

☐☒☒☐☐☒

OTHER:

ZDV, AMGR

CHANGES - REASONS:

1. ORIGINAL PROCEDURE - VFR TO IFR. REASON: RAPT/ AIRPORT REQUEST.

8/28/2017: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/01/2017.

1. CHANGED DP COMPUTER CODE FROM CARBON1.CARBON TO CRBN1.CARBN.

9/6/2017: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/01/2017.

1. CHANGED DP COMPUTER CODE FROM CRBN1.CARBN TO CRBN1.NEDAE.

QUALITY
20
CHECKED

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
CARBON							ONE	CRBN1.NEDAE	←		12 OCTOBER 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RWY06 (AER)	410203.51N/1073016.25W	N	-	-	-	-					
6973 MSL	-	-	-	VA	070.95	-				CG 485 FT/NM TO 7200	
YEGUS	410402.09N/1072406.08W	Y	FB	DF	-	-				LEFT TURN	
WIBSO	410758.03N/1071907.60W	Y	FB	TF	043.71	5.44					
VOGIE	411347.44N/1071945.81W	Y	FB	TF	355.28	5.84					
UCIGA	411547.08N/1072808.96W	Y	FB	TF	287.53	6.63					
NEDAE	411715.94N/1074043.76W	Y	FB	TF	278.94	9.60					



**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>
DIXON	ONE	DIXON1.DYNES			12 OCTOBER 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 DEPARTURE ORIGINALLY PUBLISHED IN TL 17-20.

DP ROUTE DESCRIPTION:

TAKEOFF RWY 24: CLIMB HEADING 241.96 TO 7049, THEN RIGHT TURN DIRECT DYNES, THENCE...

... EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

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: RNAV 1

NOTE: GPS REQUIRED

TAKEOFF MINIMUMS:

RWY 24, 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 228 FT PER NM TO 6800, OR ALTERNATIVELY WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FEET PRIOR TO DER

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 24: VEHICLE ON ROAD 11 FT FROM DER, 289 FT LEFT OF CENTERLINE, 6489 FT MSL.

REILS 26 FT FROM DER, 113 FT LEFT AND RIGHT OF CENTERLINE, 6475 FT MSL.

SIGN, BUILDINGS, FENCE, AND VEHICLE ON ROAD BEGINNING 63 FT FROM DER, 291 FT LEFT OF CENTERLINE, UP TO 32 FT AGL/6507 FT MSL.

VEHICLE ON ROAD BEGINNING 77 FT FROM DER, 301 FT RIGHT OF CENTERLINE, UP TO 6479 FT MSL.

TRANSMISSION LINE TOWERS BEGINNING 410 FT FROM DER, 309 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/6509 FT MSL.

VEHICLE ON ROAD ON RIDGELINE BEGINNING 1.3 NM FROM DER, 2528 FT LEFT OF CENTERLINE, UP TO 6703 FT MSL.

TREE ON RIDGELINE 1.3 NM FROM DER, 2441 FT LEFT OF CENTERLINE, 6688 FT MSL.

CONTROLLING OBSTACLES:

RWY 24: 6703 FEET MSL NT RD (N) 410113.18N/1073145.15W (CG, CGTA, CEILING). 6688 FEET MSL TREE 410114.09N/1073147.61W (VISIBILITY).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 10987 FEET MSL AAO 404727.00N/1072312.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KDWX 9E EPOCH YR: 2020.

DME/DME ASSESSMENT: NOT CONDUCTED.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
DIXON	DIXON	WY

**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>
DIXON	ONE	DIXON1.DYNES	←		12 OCTOBER 2017

COMMUNICATIONS:

AWOS, CTAF, ZDV

FIXES AND/OR NAVAIDS:

REMARKS:



**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>
DIXON	ONE	DIXON1.DYNES ←			12 OCTOBER 2017

FLIGHT INSPECTED BY:
JAMES M MEEK

Digitally signed by
BEV L BORDY
Aug 01, 2017

OFFICE SYMBOL:
FICO

DATE:
7/18/17

DEVELOPED BY:
BEVERLY BORDY (MICHAEL GARRITY)

Digitally signed by
BEV L BORDY
Aug 01, 2017

OFFICE SYMBOL:
AJV-5433

DATE:
05/08/2017

APPROVED BY:
PATRICK MULQUEEN

Digitally signed by
BEV L BORDY
Aug 01, 2017

OFFICE SYMBOL:
AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:
CONCURRENT WITH AIRSPACE DOCKET 17-ANM-5

COORDINATED WITH:

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

OTHER:
ZDV, AMGR

CHANGES - REASONS:
1. ORIGINAL PROCEDURE - VFR TO IFR. REASON: RAPT/AIRPORT REQUEST.

09/06/2017: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/1/2017.
CHANGED COMPUTER CODE FROM DIXON1.DIXON TO DIXON1.DYNES.



**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>
DIXON							ONE	DIXON1.DYNES	←		12 OCTOBER 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>	
RW24 (AER)	410226.07N/1072849.93W	N	-	-	-	-					
7049 MSL	-	-	-	VA	250.96	-				CG 228 FT/NM TO 6800	
DYNES	410234.32N/1074344.13W	Y	FB	DF	-	-				RIGHT TURN	

QUALITY
20
CHECKED

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31154](#); Amdt. No. [3765](#)]

**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 [September 8, 2017](#)

A handwritten signature in black ink, appearing to read "John S. Duncan", with a stylized, flowing script.

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 12 October 2017

Deadhorse, AK, Deadhorse, ILS OR LOC RWY 6, Amdt 3
 Deadhorse, AK, Deadhorse, RNAV (GPS) Z RWY 6, Amdt 2
 Deadhorse, AK, Deadhorse, RNAV (GPS) Z RWY 24, Amdt 2
 Deadhorse, AK, Deadhorse, Takeoff Minimums and Obstacle DP, Amdt 3A
 Deadhorse, AK, Deadhorse, VOR RWY 5, Amdt 4A, CANCELED
 Deadhorse, AK, Deadhorse, VOR RWY 6, Amdt 3
 Deadhorse, AK, Deadhorse, VOR Y RWY 24, Amdt 6B
 Deadhorse, AK, Deadhorse, VOR Z RWY 24, Amdt 5
 Mena, AR, Mena Intermountain Muni, ILS OR LOC RWY 27, Amdt 1B
 Mena, AR, Mena Intermountain Muni, NDB RWY 27, Amdt 1A
 Mena, AR, Mena Intermountain Muni, VOR/DME-A, Amdt 10, CANCELED
 Los Angeles, CA, Los Angeles Intl, ILS OR LOC RWY 24R, ILS RWY 24R (CAT II), ILS RWY 24R (CAT III), Amdt 26
 Los Angeles, CA, Los Angeles Intl, ILS OR LOC RWY 25L, ILS RWY 25L (CAT II), ILS RWY 25L (CAT III), Amdt 14A
 Los Angeles, CA, Los Angeles Intl, RNAV (GPS) Y RWY 24R, Amdt 3
 Los Angeles, CA, Los Angeles Intl, RNAV (GPS) Y RWY 25L, Amdt 4A
 Los Angeles, CA, Los Angeles Intl, RNAV (RNP) Z RWY 24R, Amdt 1A
 Los Angeles, CA, Los Angeles Intl, RNAV (RNP) Z RWY 25L, Amdt 2A
 Dover/Cheswold, DE, Delaware Airpark, RNAV (GPS) RWY 9, Orig
 Dover/Cheswold, DE, Delaware Airpark, RNAV (GPS) RWY 9, Amdt 2A, CANCELED
 Dover/Cheswold, DE, Delaware Airpark, RNAV (GPS) RWY 27, Orig
 Dover/Cheswold, DE, Delaware Airpark, RNAV (GPS) RWY 27, Amdt 1B, CANCELED
 Dover/Cheswold, DE, Delaware Airpark, Takeoff Minimums and Obstacle DP, Orig
 Dover/Cheswold, DE, Delaware Airpark, Takeoff Minimums and Obstacle DP, Orig, CANCELED
 Dover/Cheswold, DE, Delaware Airpark, VOR RWY 27, Orig
 Dover/Cheswold, DE, Delaware Airpark, VOR RWY 27, Amdt 6C, CANCELED
 Cordele, GA, Crisp County-Cordele, LOC RWY 10, Amdt 1
 Iowa City, IA, Iowa City Muni, RNAV (GPS) RWY 30, Orig-B
 Mc Call, ID, Mc Call Muni, RNAV (GPS) RWY 16, Amdt 1
 Mc Call, ID, Mc Call Muni, RNAV (GPS) RWY 34, Amdt 1
 Mc Call, ID, Mc Call Muni, RNAV (GPS) Y RWY 34, Amdt 1, CANCELED
 Muncie, IN, Delaware County Rgnl, ILS OR LOC RWY 32, Amdt 9D
 Muncie, IN, Delaware County Rgnl, RNAV (GPS) RWY 32, Orig-B
 Lawrence, MA, Lawrence Muni, ILS Y OR LOC Y RWY 5, Amdt 5
 Lawrence, MA, Lawrence Muni, ILS Z OR LOC Z RWY 5, Amdt 1
 Lawrence, MA, Lawrence Muni, RNAV (GPS) RWY 5, Amdt 1
 Lawrence, MA, Lawrence Muni, RNAV (GPS) RWY 23, Amdt 1
 Lawrence, MA, Lawrence Muni, VOR RWY 23, Amdt 12
 Long Prairie, MN, Todd Field, RNAV (GPS) RWY 34, Amdt 2
 Laurel, MT, Laurel Muni, RNAV (GPS) RWY 4, Amdt 1B

Laurel, MT, Laurel Muni, RNAV (GPS) RWY 22, Amdt 1B
Garrison, ND, Garrison Muni, RNAV (GPS) RWY 13, Amdt 1A
Garrison, ND, Garrison Muni, RNAV (GPS) RWY 31, Amdt 1A
New Philadelphia, OH, Harry Clever Field, RNAV (GPS) RWY 15, Orig-C
New Philadelphia, OH, Harry Clever Field, VOR-A, Amdt 2A
Altoona, PA, Altoona-Blair County, RNAV (GPS) Y RWY 3, Amdt 1A
Altoona, PA, Altoona-Blair County, RNAV (GPS) Z RWY 3, Orig-B
Selinsgrove, PA, Penn Valley, RNAV (GPS) RWY 17, Amdt 1
Selinsgrove, PA, Penn Valley, RNAV (GPS) RWY 35, Orig
Columbia, SC, Columbia Metropolitan, ILS OR LOC RWY 11, ILS RWY 11 (CAT II), ILS RWY 11 (CAT III), Amdt 15A
Columbia, SC, Columbia Metropolitan, ILS OR LOC RWY 29, Amdt 3I
Columbia, SC, Columbia Metropolitan, VOR-A, Amdt 16A
Bristol/Johnson/Kingsport, TN, Tri-Cities, TRICITIES TWO, Graphic DP
Abingdon, VA, Virginia Highlands, RNAV (GPS) RWY 24, Amdt 2
Melfa, VA, Accomack County, LOC RWY 3, Amdt 1
Melfa, VA, Accomack County, RNAV (GPS) RWY 3, Amdt 2
Melfa, VA, Accomack County, RNAV (GPS) RWY 21, Amdt 1
Melfa, VA, Accomack County, VOR RWY 3, Amdt 2

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-SCC 1.40 DME CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT SCC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. ALTERNATE MA (DO NOT CHART): CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2000 DIRECT PVQ NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000 (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, RT, 057.99 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N PVQ NDB, RT, 189.00 INBOUND. CHART FAS OBST: 114 VEHICLE 701102N/1483615W CHART VDP AT 2.23 DME* DISTANCE VDP TO THLD 0.82 NM. *LOC ONLY. CHART SCC R-278 AT YIGUF. CHART SCC R-144 AT UVALL. CHART SCC R-163 AT ARCON. CHART SCC R-184 AT SHELO. CHART IN PLANVIEW: PVQ NDB. CHART CIRCLING ICON. CHART IN PLANVIEW ADJACENT JOVVO: SCC 16 DME. CHART PLANVIEW NOTE: DME REQUIRED.									
PVQ NDB		JOVVO/I-SCC 15.83 DME			233.29 / 16.42			2300											
SCC VOR/DME		JOVVO/I-SCC LOC/DME 15.83 DME			238.06 / 16.00			2300											
YIGUF/SCC VOR/DME 16.00 DME CCW (IAF)		JOVVO/I-SCC LOC/DME 15.83 DME (NOPT)			16.00 DME ARC (SCC LR-246)			2300											
UVALL/SCC VOR/DME 16.00 DME CW (IAF)		JOVVO/I-SCC LOC/DME 15.83 DME (NOPT)			16.00 DME ARC (SCC LR-230)			2300											
ARCON/SCC VOR/DME 16.00 DME CW (IAF)		JOVVO/I-SCC LOC/DME 15.83 DME (NOPT)			16.00 DME ARC (SCC LR-230)			2300		ADDITIONAL FLIGHT DATA: HOLD SW, RT, 057.99 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N PVQ NDB, RT, 189.00 INBOUND. CHART FAS OBST: 114 VEHICLE 701102N/1483615W CHART VDP AT 2.23 DME* DISTANCE VDP TO THLD 0.82 NM. *LOC ONLY. CHART SCC R-278 AT YIGUF. CHART SCC R-144 AT UVALL. CHART SCC R-163 AT ARCON. CHART SCC R-184 AT SHELO. CHART IN PLANVIEW: PVQ NDB. CHART CIRCLING ICON. CHART IN PLANVIEW ADJACENT JOVVO: SCC 16 DME. CHART PLANVIEW NOTE: DME REQUIRED.									
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW JOVVO, RT, 057.99 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: 057.99 FAF: CIMAS/I-SCC 6.04 DME DIST FAF TO MAP: _____ THLD: 4.63 4. MIN. ALT: JOVVO 2300, CIMAS 1600, WUKTI/SCC 4.10 DME 980* 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ - 150 HAT: _____ - 100 HAT: _____ - GS ANT: 1090 6. MIN GS INCPT: 1600 GS ALT AT: CIMAS 1600 OM: _____ - _____ MM: _____ - _____ IM: _____ - 7. GS ANGLE: 3.00 TCH: 57.5 8. MSA FROM: SCC VOR/DME 2200																MAG VAR: 17E		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD			LOC: STANDARD							
CATEGORY =====>		A			B			C			D			E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
S-ILS 06**	267	2400	200	267	2400	200	267	2400	200	267	2400	200	267	2400	200				
S-LOC 06	380	2400	313	380	2400	313	380	2400	313	380	2400	313	380	2400	313				
CIRCLING	540	1	473	540	1	473	580	1 1/2	513	620	2	553	620	2	553				
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: DME REQUIRED. CHART PROFILE NOTE: USE I-SCC DME WHEN ON THE LOCALIZER COURSE. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 67 TDZE: 67			FACILITY IDENTIFIER: I-SCC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: ILS OR LOC/DME								
DEADHORSE, AK		AIRPORT NAME: DEADHORSE					ILS OR LOC RWY 6, AMDT 3, 10/12/2017				RWY 5								
											AMDT: 2E								
											DATED 05/29/2014								

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.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
SHELO/SCC VOR/DME 16.00 DME CW (IAF)	JOVVO/I-SCC LOC/DME 15.83 DME (NOPT)	16.00 DME ARC (SCC LR-230)	2300
JOVVO/I-SCC 15.83 DME (IF/IAF)	CIMAS/I-SCC 6.04 DME	057.99 / 9.80 (I-SCC)	1600

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 6 CAT E VISIBILITY TO RVR 4000 AND S-LOC 6 CATS C/D/E VISIBILITY TO RVR 4500.

QUALITY
18
CHECKED

CITY AND STATE

DEADHORSE, AK

ELEVATION: 67

TDZE: 67

AIRPORT NAME:

DEADHORSE

FACILITY
IDENTIFIER:
I-SCCPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 6, AMDT 3, 10/12/2017SUP: ILS OR LOC/DME
RWY 5

AMDT: 2E

DATED: 05/29/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW06 CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 1900 DIRECT CUBSU AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 114 VEHICLE 701102N/1483615W CHART R-2204. DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 0.82 NM TO RW06* *LNAV ONLY. WAAS CHANNEL # 49103 REFERENCE PATH ID: W06A CHART CIRCLING ICON. LTP HAE: 15.6 M						
EXIWO (IAF)		CUBSU (NOPT) (TF) (FB) (RNP 1.00)			147.37 / 8.00			1900								
VUWIB (IAF)		CUBSU (NOPT) (TF) (FB) (RNP 1.00)			327.57 / 8.00			1900								
CUBSU (IF/IAF)		CIMAS (TF) (FB) (RNP 1.00)			057.47 / 7.00			1600								
CIMAS (FAF)		WUKTI/2.70 NM TO RW06 (TF) (FB) (RNP 0.30)			057.78 / 1.93											
WUKTI/2.70 NM TO RW06 (SEE FORM 8260-10)		RW06 (MAP) (TF) (FO) (RNP 0.30)			057.78 / 2.70											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW CUBSU, RT, 057.47 INBOUND, 1900 FT. IN LIEU OF PT (IAF) 3. FAC: 057.78 FAF: CIMAS DIST FAF TO MAP: 4.63 THLD: 4.63 4. MIN. ALT: CUBSU 1900, CIMAS 1600, WUKTI/2.70 NM TO RW06 980* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: CIMAS 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 57.5 34:1 IS CLEAR 8. MSA FROM: _____										MAG VAR: 17E 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**	267	2400	200	267	2400	200	267	2400	200	267	2400	200	267	2400	200	
LNAV/VNAV DA	317	2400	250	317	2400	250	317	2400	250	317	2400	250	317	2400	250	
LNAV MDA	380	2400	313	380	2400	313	380	2400	313	380	2400	313	380	2400	313	
CIRCLING	540	1	473	540	1	473	580	1 1/2	513	620	2	553	620	2	553	
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E AND LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, (CONTINUED ON PAGE 2)																
CITY AND STATE DEADHORSE, AK		ELEVATION: 67 TDZE: 67 AIRPORT NAME: DEADHORSE			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 6, AMDT 2 12 OCTOBER 2017					SUP: RNAV (GPS) Y RWY 5 AMDT: 1C DATED 05/29/2014				



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
RW06 (MAP)	500 MSL (CA)	059.78	500
500 MSL	CUBSU (DF) (FO) (RNP 1.00)		1900

NOTES, (CONT.):

INCREASE LNAV CATS C/D/E VISIBILITY TO RVR 4500.

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

TAA

	FROM	TO	ALT
1.	327/30 CW 147/30 (NOPT)	327/10 CW 147/10	2500
2.	327/10 CW 147/10	CUBSU (IF/IAF) (FB)	1900
3.	147/30 CW 237/30	EXIWO (IAF) (FB)	2500
4.	237/30 CW 327/30	VUWIB (IAF) (FB)	2500

QUALITY
18
CHECKED

CITY AND STATE

DEADHORSE, AK

ELEVATION: 67

TDZE: 67

AIRPORT NAME:

DEADHORSE

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Z RWY 6, AMDT 2
12 OCTOBER 2017

SUP:	RNAV (GPS) Y RWY 5
AMDT:	1C
DATED:	05/29/2014

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PASC
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	701132.8475N
LTP/FTP LONGITUDE	1482925.6495W
LTP/FTP ELLIPSOIDAL HEIGHT	+00156
FPAP LATITUDE	701155.7820N
FPAP LONGITUDE	1482512.8120W
THRESHOLD CROSSING HEIGHT (TCH)	00057.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0776
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 19BFE9FE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00204
FPAP ORTHOMETRIC HEIGHT	+00204

QUALITY
18
CHECKED

CITY AND STATE DEADHORSE, AK	ELEVATION: 67 TDZE: 67 AIRPORT NAME: DEADHORSE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 6, AMDT 2 12 OCTOBER 2017	SUP: RNAV (GPS) Y RWY 5
				AMDT: 1C
				DATED: 05/29/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW24 CLIMB TO 500 THEN CLIMBING LEFT TURN TO 1700 DIRECT MAJEF AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 205 POLE 701211N/1482725W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.08 NM TO RW24* *LNAV ONLY. WAAS CHANNEL # 69203 REFERENCE PATH ID: W24A CHART CIRCLING ICON. LTP HAE: 13.7 M							
UBYEF (IAF)		MAJEF (NOPT) (TF) (FB) (RNP 1.00)		328.65 / 8.00		1700									
QATZA (IAF)		MAJEF (NOPT) (TF) (FB) (RNP 1.00)		148.46 / 8.00		1700									
MAJEF (IF/IAF)		OCOTA (TF) (FB) (RNP 1.00)		238.56 / 7.00		1600									
OCOTA (FAF)		WILIG/2.60 NM TO RW24 (TF) (FB) (RNP 0.30)		238.24 / 2.06											
WILIG/2.60 NM TO RW24		RW24 (MAP) (TF) (FO) (RNP 0.30)		238.24 / 2.60											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE MAJEF, RT, 238.56 INBOUND, 1700 FT. IN LIEU OF PT (IAF) 3. FAC: 238.24 FAF: OCOTA DIST FAF TO MAP: 4.66 THLD: 4.66 4. MIN. ALT: MAJEF 1700, OCOTA 1600, WILIG/2.60 NM TO RW24 940* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: OCOTA 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.0 34:1 IS CLEAR 8. MSA FROM: _____															
										MAG VAR: 17E			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	266	2400	200	266	2400	200	266	2400	200	266	2400	200	266	2400	200
LNAV/VNAV DA	381	3000	315	381	3000	315	381	3000	315	381	3000	315	381	3000	315
LNAV MDA	460	2400	394	460	2400	394	460	3500	394	460	3500	394	460	3500	394
CIRCLING	540	1	473	540	1	473	580	1 1/2	513	620	2	553	620	2	553
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBIITY TO RVR 4000, LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000, AND LNAV CAT E VISIBILITY TO RVR 6000. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 67 TDZE: 66		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP: RNAV (GPS) Y RWY 23		AMDT: 1C		DATED: 05/29/2014			
DEADHORSE, AK		AIRPORT NAME: DEADHORSE				RNAV (GPS) Z RWY 24, AMDT 2, 10/12/7017									



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
RW24 (MAP)	500 MSL (CA)	238.24	500
500 MSL	MAJEF (DF) (FO) (RNP 1.00)		1700

NOTES, (CONT.):

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

TAA

	FROM	TO	ALT
1.	149/30 CW 329/30 (NOPT)	149/10 CW 329/10	2500
2.	149/10 CW 329/10	MAJEF (IF/IAF) (FB)	1700
3.	329/30 CW 059/30	UBYEF (IAF) (FB)	2500
4.	059/30 CW 149/30	QATZA (IAF) (FB)	2500

QUALITY
4
CHECKED

CITY AND STATE

DEADHORSE, AK

ELEVATION: 67

TDZE: 66

AIRPORT NAME:

DEADHORSE

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Z RWY 24, AMDT 2, 10/12/2017

SUP: RNAV (GPS) Y RWY
23

AMDT: 1C

DATED: 05/29/2014

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

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



CITY AND STATE DEADHORSE, AK	ELEVATION: 67 TDZE: 66 AIRPORT NAME: DEADHORSE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 24, AMDT 2, 10/12/2017	SUP: RNAV (GPS) Y RWY 23
				AMDT: 1C
				DATED: 05/29/2014

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PASC
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	701149.3815N
LTP/FTP LONGITUDE	1482623.5370W
LTP/FTP ELLIPSOIDAL HEIGHT	+00137
FPAP LATITUDE	701126.4155N
FPAP LONGITUDE	1483036.3280W
THRESHOLD CROSSING HEIGHT (TCH)	00054.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

BA12525E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00185
FPAP ORTHOMETRIC HEIGHT	+00185

QUALITY
4
CHECKED

CITY AND STATE

DEADHORSE, AK

ELEVATION: 67

TDZE: 66

AIRPORT NAME:

DEADHORSE

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 24, AMDT 2, 10/12/2017

SUP: RNAV (GPS) Y RWY
23

AMDT: 1C

DATED: 05/29/2014

**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>
DEADHORSE, AK	DEADHORSE	12 OCTOBER 2017	3A

TAKEOFF MINIMUMS:
RWY 6, 24: STANDARD

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 6: SIGN 13 FEET FROM DER, 250 FEET LEFT OF CENTERLINE, 2 FEET AGL/62 FEET MSL.
NOTE: RWY 24: LIGHT 10 FEET FROM DER, 5 FEET RIGHT OF CENTERLINE, 1 FEET AGL/68 FEET MSL.

CONTROLLING OBSTACLES:

REMARKS:
ABREV AMDT

FLIGHT INSPECTED BY:
JOEL LAPLANTE

Digitally signed by
DONALD H LANIER
Aug 29, 2017

OFFICE SYMBOL:
FICO

DATE:

DEVELOPED BY:
KELLY DEAN

KELLY D DEAN *Digitally signed by KELLY D DEAN
Date: 2017.05.04 11:58:57 -05'00'*

OFFICE SYMBOL:
AJV-5431

DATE:
05/04/2017

APPROVED BY:
PATRICK MULQUEEN, MANAGER

Digitally signed by
DONALD H LANIER
Aug 29, 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:
ZAN, ARPT MGR

CHANGES - REASONS:
1. RWY NUMBERS CHANGED FROM 5/23 TO 6/24 - MAG/VAR UPDATED.
2. RWY 24 TAKEOFF NOTE DIST FROM CENTERLINE CHANGED FROM 4 FEET TO 5 FEET - TARGETS EVAL.

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 12 OCTOBER 2017																																			
CITY AND STATE DEADHORSE, AK				ELEVATION: 67 TDZE: 67 AIRPORT NAME: DEADHORSE				FACILITY IDENTIFIER: SCC				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 5, AMDT 4A, 05/29/2014						SUP AMDT 4 DATE 10/25/2007																	

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: SCC 1.57 DME									
SCC VOR/DME		JOVVO/SCC 16.00 DME		238.06 / 16.00				2300		CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT SCC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 057.99 INBOUND. CHART FAS OBST: 114 VEHICLE 701102N/1483615W CHART VDP AT 2.40 DME DISTANCE VDP TO THLD 0.82 NM. CHART SCC R-278 AT YIGUF. CHART SCC R-144 AT UVALL. CHART SCC R-163 AT ARCON. CHART SCC R-184 AT SHELO. CHART CIRCLING ICON. CIMAS TO RW06: 3.02/50. CHART PLANVIEW NOTE: DME REQUIRED.									
YIGUF/SCC 16.00 DME CCW (IAF)		JOVVO/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-246)				2300											
UVALL/SCC 16.00 DME CW (IAF)		JOVVO/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-230)				2300											
ARCON/SCC 16.00 DME CW (IAF)		JOVVO/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-230)				2300											
SHELO/SCC 16.00 DME CW (IAF)		JOVVO/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-230)				2300											
JOVVO/SCC 16.00 DME (IF/IAF)		CIMAS/SCC 6.20 DME		058.06 / 9.80 (SCC R-238)				1600											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW JOVVO, RT, 058.06 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC 058.06 FAF CIMAS/SCC 6.20 DME _____ DIST FAF TO MAP _____ THLD 4.63 4. MIN. ALT JOVVO 2300, CIMAS 1600, WUTKI/SCC 4.27 DME 980 8. MSA FROM: SCC VOR/DME 2200																MAG VAR: 17E		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD									
CATEGORY =====>		A		B		C		D		E									
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA				
S-06	380	2400	313	380	2400	313	380	2400	313	380	2400	313	380	2400	313				
CIRCLING	540	1	473	540	1	473	580	1 1/2	513	620	2	553	620	2	553				
NOTES: CHART NOTE: DME REQUIRED. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-6 CATS C/D/E TO RVR 4500.																			
CITY AND STATE DEADHORSE, AK		ELEVATION: 67 AIRPORT NAME: DEADHORSE		TDZE: 67		FACILITY IDENTIFIER: SCC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 6, AMDT 3, 10/12/2017				SUP VOR/DME RWY 5							
												AMDT 2A							
												DATE 05/29/2014							



**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.

QUALITY
18
CHECKED

CITY AND STATE

DEADHORSE, AK

ELEVATION: 67

TDZE: 67

AIRPORT NAME:

DEADHORSE

FACILITY
IDENTIFIER:

SCC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
VOR RWY 6, AMDT 3, 10/12/2017

SUP: VOR/DME RWY 5

AMDT: 2A

DATED: 05/29/2014

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: SCC VOR/DME						
										CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT SCC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000.						
										ADDITIONAL FLIGHT DATA: HOLD NE, RT, 238.06 INBOUND. FAS OBST: 261 AAO 701202N/1481625W CHART VDP AT 0.95 DME DISTANCE VDP TO THLD 1.46 NM. CHART CIRCLING ICON.						
1. PT <u>L</u> SIDE OF COURSE <u>058.04</u> OUTBOUND <u>1600</u> FT WITHIN <u>10</u> MILES OF <u>SCC VOR/DME</u> (IAF)																
2.																
3. FAC <u>238.04</u> FAF _____ DIST FAF TO MAP _____ THLD _____																
4. MIN. ALT _____																
8. MSA FROM: SCC VOR/DME 2200										MAG VAR: 17E			EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD							
CATEGORY =====>		A			B			C			D			E		
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-24		580	2400	514	580	2400	514	580	5500	514	580	5500	514			
CIRCLING		580	1	513	580	1	513	580	1 1/2	513	620	2	553			
NOTES:																
CITY AND STATE DEADHORSE, AK		ELEVATION: 67 AIRPORT NAME: DEADHORSE			TDZE: 66			FACILITY IDENTIFIER: SCC			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR Y RWY 24, AMDT 6B, 10/12/2017			SUP VOR RWY 23 AMDT 6A DATE 05/29/2014		



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: SCC VOR/DME							
SCC VOR/DME		OCOTA/SCC 4.16 DME		058.06 / 4.16				1600		CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT SCC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 238.06 INBOUND. CHART FAS OBST: 222 RIG 701259N/1482455W CHART VDP AT 0.64 DME DISTANCE VDP TO THLD 1.14 NM. CHART SCC R-278 AT YIGUF. CHART SCC R-184 AT SHELO. CHART SCC R-163 AT ARCON. CHART SCC R-144 AT UVALL. CHART CIRCLING ICON. OCOTA TO RW24: 3.00/54. CHART PLANVIEW NOTE: DME REQUIRED.							
YIGUF/SCC 16.00 DME CW (IAF)		QUVQU/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-050)				2300									
SHELO/SCC 16.00 DME CCW (IAF)		QUVQU/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-066)				2300									
ARCON/SCC 16.00 DME CCW (IAF)		QUVQU/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-066)				2300									
UVALL/SCC 16.00 DME CCW (IAF)		QUVQU/SCC 16.00 DME (NOPT)		16.00 DME ARC (SCC LR-066)				2300									
QUVQU/SCC 16.00 DME (IF)		OCOTA/SCC 4.16 DME		238.06 / 11.84 (SCC R-058)				1600									
1. PT <u> L </u> SIDE OF COURSE <u> 058.06 </u> OUTBOUND <u> 1600 </u> FT WITHIN <u> 15 </u> MILES OF <u> OCOTA </u> (IAF) 2. _____ 3. FAC <u> 238.06 </u> FAF <u> OCOTA/SCC 4.16 DME </u> DIST FAF TO MAP _____ THLD <u> 4.66 </u> 4. MIN. ALT <u> OCOTA 1600, WILIG/SCC 2.10 DME 940 </u> 8. MSA FROM: <u> SCC VOR/DME 2200 </u>														MAG VAR: 17E		EPOCH YEAR: 2020	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD							
CATEGORY =====>		A		B		C		D		E							
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA		
S-24	480	2400	414	480	2400	414	480	4000	414	480	4000	414	480	4000	414		
CIRCLING	540	1	473	540	1	473	580	1 1/2	513	620	2	553	620	2	553		
NOTES: CHART NOTE: DME REQUIRED. CHART NOTE: FOR INOPERATIVE ALS, INCREASE CATS C/D/E VISIBILITY TO RVR 6000.																	
CITY AND STATE DEADHORSE, AK		ELEVATION: 67 AIRPORT NAME: DEADHORSE		TDZE: 66		FACILITY IDENTIFIER: SCC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR Z RWY 24, AMDT 5, 10/12/2017				SUP VOR/DME RWY 23					
												AMDT 4A					
												DATE 05/29/2014					

QUALITY
 18
 CHECKED

**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.



CITY AND STATE

DEADHORSE, AK

ELEVATION: 67

TDZE: 66

AIRPORT NAME:

DEADHORSE

FACILITY
IDENTIFIER:

SCC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
VOR Z RWY 24, AMDT 5, 10/12/2017

SUP: VOR/DME RWY 23

AMDT: 4A

DATED: 05/29/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.73 NM AFTER FENCH LOM/I-VMU 6.86 DME OR AT I-VMU 1.13 DME CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 3600 DIRECT FENCH LOM/I-VMU 6.86 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 269.19 INBOUND. FAS OBST: 1239 AAO 343212N/0940719W CHART HOG LOW SOUTH MOA. CHART VDP AT 3.13 DME* DISTANCE VDP TO THLD 2.00 NM. *LOC ONLY. CHART IN PLANVIEW: (CFCJK) 343204.84N/0935707.64W CHART PLANVIEW NOTE: ADF OR DME REQUIRED.					
BATEZ INT		FENCH LOM/I-VMU 6.86 DME		151.97 / 15.47				4200							
UMPIR INT		FENCH LOM/I-VMU 6.86 DME		017.46 / 12.37				4200							
1. PT <u>L</u> SIDE OF COURSE <u>089.19</u> OUTBOUND <u>3600</u> FT WITHIN <u>10</u> MILES OF <u>FENCH LOM</u> (IAF)										MAG VAR: 3E EPOCH YEAR: 2005					
2. _____															
3. FAC: <u>269.19</u> FAF: <u>FENCH LOM/I-VMU 6.86 DME</u> DIST FAF TO MAP: <u>5.73</u> THLD: <u>5.73</u>															
4. MIN. ALT: <u>FENCH LOM/I-VMU 6.86 DME 3100</u>															
5. DIST TO THLD FROM OM: <u>5.73</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>986</u>															
6. MIN GS INCPT: <u>3100</u> GS ALT AT: <u>-</u> OM: <u>2953</u> MM: <u>-</u> IM: <u>-</u>															
7. GS ANGLE: <u>3.00</u> TCH: <u>56.0</u>															
8. MSA FROM: <u>VM NDB 3900</u>															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A				X							
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 27	1464	1 1/2	400	1464	1 1/2	400	1464	1 1/2	400		NA				
S-LOC 27	1660	1	596	1660	1	596	1660	1 7/8	596		NA				
CIRCLING	1880	1	800	1940	1 1/4	860	2060	3	980		NA				
NOTES: CHART NOTE: CIRCLING TO RWY 17, 35 NA AT NIGHT. CHART NOTE: ADF REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).															
CITY AND STATE MENA, AR		ELEVATION: 1080 TDZE: 1064 AIRPORT NAME: MENA INTERMOUNTAIN MUNI		FACILITY IDENTIFIER: I-VMU		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 1B 12 OCTOBER 2017				SUP: AMDT: 1A DATED 12/18/2008					



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

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

CITY AND STATE
MENA, AR

ELEVATION: 1080 TDZE: 1064
AIRPORT NAME:
MENA INTERMOUNTAIN MUNI

FACILITY
IDENTIFIER:
I-VMU

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 27, AMDT 1B
12 OCTOBER 2017

SUP:
AMDT: 1A
DATED: 12/18/2008

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		MAP: 5.73 NM AFTER FENCH LOM									
BATEZ INT			FENCH LOM			151.94 / 15.49			4200		CLIMBING RIGHT TURN TO 3600 DIRECT FENCH LOM AND HOLD.									
UMPIR INT			FENCH LOM			017.45 / 12.35			4200											
										ADDITIONAL FLIGHT DATA: HOLD E, RT, 269.00 INBOUND. CHART FAS OBST: 1638 TREE KMETZ002128 343040N/0941121W CHART HOG LOW SOUTH MOA. FENCH TO RW27: 3.29/49.										
1. PT <u>L</u> SIDE OF COURSE <u>088.94</u> OUTBOUND <u>3600</u> FT WITHIN <u>10</u> MILES OF <u>FENCH LOM</u> (IAF)																				
2.																				
3. FAC <u>268.94</u> FAF <u>FENCH LOM</u> DIST FAF TO MAP <u>5.73</u> THLD <u>5.73</u>																				
4. MIN. ALT <u>FENCH LOM 3100</u>																				
8. MSA FROM: <u>VM NDB 3900</u>										MAG VAR: 3E EPOCH YEAR: 2005										
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-27	1980	1 1/4	916	1980	1 1/4	916	1980	2 1/2	916											
CIRCLING	1980	1 1/4	900	1980	1 1/4	900	2060	3	980											
NOTES:																				
CHART NOTE: CIRCLING TO RWY 17, 35 NA AT NIGHT.																				
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																				
CITY AND STATE MENA, AR				ELEVATION: 1080 TDZE: 1064 AIRPORT NAME: MENA INTERMOUNTAIN MUNI			FACILITY IDENTIFIER: VM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 27, AMDT 1A 12 OCTOBER 2017				SUP AMDT 1 DATE 06/05/2008							



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE									
										ADDITIONAL FLIGHT DATA:									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																			
2. _____																			
3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A 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																			
NOTES: PROCEDURE CANCELED EFFECTIVE 12 OCTOBER 2017																			
CITY AND STATE MENA, AR				ELEVATION: 1079 TDZE: AIRPORT NAME: MENA INTERMOUNTAIN MUNI				FACILITY IDENTIFIER: PGO		PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR/DME-A, AMDT 10, 11/28/2002						SUP AMD'T NONE DATE			

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: 6.36 NM AFTER JETSA/I-OSS 8.32 DME/RADAR OR AT I-OSS 1.96 DME CLIMB TO 2000 ON HEADING 251.00 AND LAX VORTAC R-260 TO RAFFS INT/LAX 15.12 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 2000 ON HEADING 251.00 AND SMO VOR/DME R-233 TO EXERT INT/SMO 20.99 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 260.00 INBOUND. ALTERNATE MA HOLDING, HOLD NE EXERT INT/SMO 20.99 DME, RT, 232.90 INBOUND (DO NOT CHART). CHART FAS OBST: 211 SIGN 335723N/1182213W CHART FAS OBST: 306 BLDG 335650N/1182258W CHART 440 CRANE 335711N/1182033W. CHART VDP AT 2.86 DME* DISTANCE VDP TO THLD 0.90 NM. *LOC ONLY. CHART KHHH IN PLANVIEW. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT CRCUS. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT SEAVU. MAG VAR: 12E EPOCH YEAR: 2020									
CRCUS (IAF)		SKOLL (TF) (FB) (RNP 1.00)		240.97 / 10.44		10000											
SEAVU (IAF)		SKOLL (TF) (FB) (RNP 1.00)		273.88 / 10.89		10000											
SKOLL/I-OSS LOC/DME 37.30 DME/RADAR		DECOR/I-OSS LOC/DME 33.70 DME/RADAR		251.00 / 3.60 (I-OSS)		9000											
DECOR/I-OSS LOC/DME 33.70 DME/RADAR		BREEA/I-OSS LOC/DME 30.10 DME/RADAR		251.00 / 3.60 (I-OSS)		8000											
BREEA/I-OSS LOC/DME 30.10 DME/RADAR		PALAC/I-OSS LOC/DME 26.50 DME/RADAR		251.00 / 3.60 (I-OSS)		7000											
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. PROFILE STARTS AT SKOLL/I-OSS LOC/DME 37.30 DME/RADAR																	
3. FAC: 251.00 FAF: JETSA/I-OSS LOC/DME 8.32 DME/RADAR DIST FAF TO MAP: 6.36 THLD: 6.36																	
4. MIN. ALT: SKOLL 10000, DECOR 9000, BREEA 8000, PALAC 7000, LIVVN 6000, BROUK 5000, MERCE 4000, (SEE FORM 8260-10)																	
5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - _____ 100 HAT: 912 GS ANT: 1025																	
6. MIN GS INCPT: 2200 GS ALT AT: JETSA 2200 OM: _____ - _____ MM: _____ - _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 55.3																	
8. MSA FROM: LAX VORTAC 060-190 2700, 190-300 4200, 300-060 7700																	
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 24R	322	1800	200	322	1800	200	322	1800	200	322	1800	200					
S-LOC 24R	480	2400	358	480	2400	358	480	3000	358	480	3000	358					
SIDESTEP 24L	500	5500	377	500	5500	377	500	5500	377	500	1 1/2	377					
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 24R: CAT A, B, C, D, RA 118, RVR 1200, HAT 100, DA 222 MSL. CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 24R: CAT III CAT A, B, C, D, RVR 600. (CONTINUED ON PAGE 2)																	
CITY AND STATE LOS ANGELES, CA		ELEVATION: 128 AIRPORT NAME: LOS ANGELES INTL		TDZE: 24R 122 TDZE: 24L 123		FACILITY IDENTIFIER: I-OSS		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 24R, AMDT 26; ILS RWY 24R (CAT II), ILS RWY 24R (CAT III) 12 OCTOBER 2017					SUP: AMDT: 25 DATED 03/02/2017				

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.

LINE 4, (CONT.):

JETA 2200, ARBIE/I-OSS LOC/DME 3.68 DME/RADAR 720*

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
PALAC/I-OSS LOC/DME 26.50 DME/RADAR	LIVVN/I-OSS LOC/DME 22.62 DME/RADAR	251.00 / 3.88 (I-OSS)	6000
LIVVN/I-OSS LOC/DME 22.62 DME/RADAR	BROUK/I-OSS LOC/DME 19.42 DME/RADAR	251.00 / 3.20 (I-OSS)	5000
BROUK/I-OSS LOC/DME 19.42 DME/RADAR	MERCE/I-OSS LOC/DME 16.22 DME/RADAR	251.00 / 3.20 (I-OSS)	4000
MERCE/I-OSS LOC/DME 16.22 DME/RADAR (IF)	JETA/I-OSS LOC/DME 8.32 DME/RADAR	251.00 / 7.90 (I-OSS)	2200

NOTES, (CONT.):

CHART NOTE: DME OR RADAR REQUIRED.

CHART SPEED ICON IN PLANVIEW AT CRCUS : MAX 270 KIAS.

CHART SPEED ICON IN PLANVIEW AT SEAVU : MAX 270 KIAS.

CHART PLANVIEW NOTE ADJACENT TO CRCUS, SEAVU: RNAV 1-GPS REQUIRED.

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

CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS WITH HHR LOC RWY 25.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH HHR.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 24R CAT C/D VISIBILITY TO RVR 5500.

CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.

QUALITY
25
CHECKED

CITY AND STATE

LOS ANGELES, CA

ELEVATION: 128

AIRPORT NAME:

LOS ANGELES INTL

TDZE: 24R 122

TDZE: 24L 123

FACILITY
IDENTIFIER:

I-OSS

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 24R, AMDT 26; ILS RWY 24R (CAT II),
ILS RWY 24R (CAT III)

12 OCTOBER 2017

SUP:

AMDT: 25

DATED: 03/02/2017

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: 5.49 NM AFTER LIMMA/I-LAX 7.48 DME/RADAR OR AT I-LAX 1.99 DME CLIMB TO 2000 ON HEADING 251 UNTIL CROSSING THE SMO R-160, THEN LEFT TURN ON HEADING 236 AND ON THE SMO R-195 TO CATLY INT/SMO 15.73 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 200 AND ON LAX VORTAC R-210 TO CATLY INT/LAX 12.79 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 194.74 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE CATLY INT/LAX 12.79 DME, RT, 210.00 INBOUND. CHART FAS OBST: 243 BLDG 335651N/1182020W CHART VDP AT 3.16 DME* DISTANCE VDP TO THLD 1.17 NM. *LOC ONLY. CHART KHRH IN PLANVIEW. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT CRCUS. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT SEAVU. CHART MINIMUM 10000 AT CLPUR. CHART MANDATORY 5000 AT TRNDO. MAG VAR: 12E EPOCH YEAR: 2020					
CRCUS (IAF)		KRAIN (TF) (FB) (RNP 1.00)		234.67 / 10.01				10000							
SEAVU (IAF)		KRAIN (TF) (FB) (RNP 1.00)		270.06 / 9.91				10000							
KRAIN/I-LAX 37.16 DME/RADAR		TAROC/I-LAX 33.70 DME/RADAR		251.01 / 3.46 (I-LAX)				9000							
TAROC/I-LAX 33.70 DME/RADAR		DYMMO/I-LAX 30.31 DME/RADAR		251.01 / 3.39 (I-LAX)				8000							
DYMMO/I-LAX 30.31 DME/RADAR		FUEL/I-LAX 26.41 DME/RADAR		251.01 / 3.90 (I-LAX)				7000							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT KRAIN/I-LAX 37.16 DME/RADAR 3. FAC: 251.01 FAF: LIMMA/I-LAX 7.48 DME/RADAR DIST FAF TO MAP: 5.49 THLD: 5.49 4. MIN. ALT: KRAIN 10000, TAROC 9000, DYMMO 8000, FUEL 7000, GAATE 5000, HUNDA 3600, LIMMA 1900, (SEE FORM 8260-10) 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - 100 HAT: 990 GS ANT: 1000 6. MIN GS INCPT: 1900 GS ALT AT: LIMMA 1900 OM: _____ - _____ MM: _____ - _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.3 8. MSA FROM: LAX VORTAC 060-190 2700, 190-300 4200, 300-060 7700															
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 25L	304	1800	200	304	1800	200	304	1800	200	304	1800	200			
S-LOC 25L	540	2400	436	540	2400	436	540	4000	436	540	4000	436			
SIDESTEP 25R	540	5500	436	540	5500	436	540	5500	436	540	1 1/2	436			
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 25L: CAT A, B, C, D, RA 107, RVR 1200, HAT 100, DA 204 MSL. CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 25L: CAT III CAT A, B, C, D, RVR 600. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 128		TDZE: 25L 104		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
LOS ANGELES, CA		AIRPORT NAME:		TDZE: 25R 104		I-LAX		ILS OR LOC RWY 25L, AMDT 14A; ILS RWY 25L (CAT II), ILS RWY 25L (CAT III)				AMDT: 14			
		LOS ANGELES INTL						12 OCTOBER 2017				DATED 03/02/2017			

QUALITY
 25
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

LINE 4, (CONT.):

LADLE/I-LAX 3.74 DME/RADAR 700*

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
FUELR/I-LAX 26.41 DME/RADAR	GAATE/I-LAX 17.48 DME/RADAR	251.01 / 8.93 (I-LAX)	5000
CLPUR (IAF)	WITZZ (TF) (FB) (RNP 1.00)	251.40 / 3.61	9000
WITZZ	JUDOH (TF) (FB) (RNP 1.00)	251.44 / 3.39	8000
JUDOH	KENZO (TF) (FB) (RNP 1.00)	251.38 / 4.30	7000
KENZO	SNNAK (TF) (FB) (RNP 1.00)	251.55 / 3.14	6300
SNNAK	GAATE (TF) (FB) (RNP 1.00)	284.54 / 6.16	5000
GAATE/I-LAX 17.48 DME/RADAR	HUNDA/I-LAX 13.08 DME/RADAR	251.01 / 4.40 (I-LAX)	3600
TRNDO (IAF)	HUNDA (TF) (FB) (RNP 1.00)	313.80 / 4.90	3600
HUNDA/I-LAX 13.08 DME/RADAR	LIMMA/I-LAX 7.48 DME/RADAR	251.01 / 5.60 (I-LAX)	1900

NOTES, (CONT.):

CHART NOTE: DME OR RADAR REQUIRED.

CHART SPEED ICON IN PLANVIEW AT CRCUS : MAX 270 KIAS.

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

CHART SPEED ICON IN PLANVIEW AT SEAVU : MAX 270 KIAS.

CHART PLANVIEW NOTE ADJACENT TO CLPUR, CRCUS, SEAVU, TRNDO: RNAV 1-GPS REQUIRED.

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

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH HHR.

CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS WITH HHR LOC RWY 25.

CHART PLANVIEW NOTE: DME OR RADAR REQUIRED

QUALITY
25
CHECKED

CITY AND STATE

LOS ANGELES, CA

ELEVATION: 128

AIRPORT NAME:

LOS ANGELES INTL

TDZE: 25L 104

TDZE: 25R 104

FACILITY
IDENTIFIER:

I-LAX

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

 ILS OR LOC RWY 25L, AMDT 14A; ILS RWY 25L (CAT II),
ILS RWY 25L (CAT III)

12 OCTOBER 2017

SUP:

AMDT: 14

DATED: 03/02/2017

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: RW24R CLIMB TO 2000 DIRECT IGUPE AND ON TRACK 262.67 TO RAFFS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 262.00 INBOUND. CHART FAS OBST: 389 CTRL TWR 335638N/1182414W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. WAAS CHANNEL # 69307 REFERENCE PATH ID: W24A CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT SEAVU. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT CRCUS. CHART KHRH IN PLANVIEW. LTP HAE: .3 M									
CRCUS (IAF)		SKOLL (TF) (FB) (RNP 1.00)		240.97 / 10.44				10000											
SEAVU (IAF)		SKOLL (TF) (FB) (RNP 1.00)		273.88 / 10.89				10000											
SKOLL		DECOR (TF) (FB) (RNP 1.00)		251.39 / 3.60				9000											
DECOR		BREEA (TF) (FB) (RNP 1.00)		251.35 / 3.60				8000											
BREEA		PALAC (TF) (FB) (RNP 1.00)		251.31 / 3.60				7000											
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PALAC 3. FAC: 251.07 FAF: JETSA DIST FAF TO MAP: 6.36 THLD: 6.36 4. MIN. ALT: PALAC 7000, LIVVN 6000, BROUK 5000, MERCE 4000, JETSA 2200, ARBIE/1.72 NM TO RW24R 720* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2200 GS ALT AT: JETSA 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.3 34:1 IS CLEAR 8. MSA FROM: RW24R 7700																MAG VAR: 12E		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	322	1800	200	322	1800	200	322	1800	200	322	1800	200							
LNAV/VNAV DA	589	6000	467	589	6000	467	589	6000	467	589	6000	467							
LNAV MDA	640	2400	518	640	2400	518	640	5500	518	640	5500	518							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 6C (43F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART SPEED ICON IN PLANVIEW AT SEAVU: MAX 270 KIAS. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 128 TDZE: 122		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
LOS ANGELES, CA		AIRPORT NAME:				RNAV (GPS) Y RWY 24R, AMDT 3				AMDT: 2									
		LOS ANGELES INTL				12 OCTOBER 2017				DATED 03/02/2017									



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
PALAC	LIVVN (TF) (FB) (RNP 1.00)	251.30 / 3.88	6000
LIVVN	BROUK (TF) (FB) (RNP 1.00)	251.19 / 3.20	5000
BROUK	MERCE (TF) (FB) (RNP 1.00)	251.19 / 3.20	4000
MERCE (IF)	JETSA (TF) (FB) (RNP 1.00)	251.16 / 7.90	2200
JETSA (FAF)	ARBIE/1.72 NM TO RW24R (TF) (FO) (RNP 0.30)	251.07 / 4.64	
ARBIE/1.72 NM TO RW24R	RW24R (MAP) (TF) (FO) (RNP 0.30)	251.07 / 1.72	
RW24R (MAP)	322 MSL (CA)	251.07	
322 MSL	IGUPE (DF) (FB) (RNP 1.00)		
IGUPE	RAFFS (TF) (FO) (RNP 1.00)	262.67 / 10.85	2000

NOTES, (CONT.):

CHART SPEED ICON IN PLANVIEW AT CRCUS: MAX 270 KIAS.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH HHR.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

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

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/2 SM, AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

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

QUALITY
25
CHECKED

CITY AND STATE

LOS ANGELES, CA

ELEVATION: 128

TDZE: 122

AIRPORT NAME:

LOS ANGELES INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 24R, AMDT 3

12 OCTOBER 2017

SUP:

AMDT: 2

DATED: 03/02/2017

**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	KLAX
RUNWAY	RW24R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	335707.5740N
LTP/FTP LONGITUDE	1182407.0160W
LTP/FTP ELLIPSOIDAL HEIGHT	+00003
FPAP LATITUDE	335656.6865N
FPAP LONGITUDE	1182553.3230W
THRESHOLD CROSSING HEIGHT (TCH)	00055.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0032
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 0D5CF365

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00362
FPAP ORTHOMETRIC HEIGHT	+00362

QUALITY
25
CHECKED

CITY AND STATE LOS ANGELES, CA	ELEVATION: 128 TDZE: 122 AIRPORT NAME: LOS ANGELES INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 24R, AMDT 3 12 OCTOBER 2017	SUP:
				AMDT: 2
				DATED: 03/02/2017

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	LPV: DA LNAV/VNAV: DA LNAV: RW25L CLIMB TO 2000 DIRECT ZERAN AND ON TRACK 186.67 TO CATLY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 213.10 INBOUND. CHART FAS OBST: 313 BLDG 335646N/1182254W DISTANCE TO THLD FROM 261 HAT: 0.67 NM. WAAS CHANNEL # 53507 REFERENCE PATH ID: W25A CHART MANDATORY 5000 AT TRNDO. CHART KHRH IN PLANVIEW. CHART MINIMUM 10000 AT CLPUR. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT CRCUS. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT SEAVU. LTP HAE: -6.1 M								
CRCUS (IAF)	KRAIN (TF) (FB) (RNP 1.00)	234.67 / 10.01	10000									
SEAVU (IAF)	KRAIN (TF) (FB) (RNP 1.00)	270.06 / 9.91	10000									
KRAIN	TAROC (TF) (FB) (RNP 1.00)	251.41 / 3.46	9000									
TAROC	DYMMO (TF) (FB) (RNP 1.00)	251.31 / 3.39	8000									
DYMMO	FUELR (TF) (FB) (RNP 1.00)	251.36 / 3.90	7000									
(SEE FORM 8260-10)												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HUNDA 3. FAC: 251.07 FAF: LIMMA DIST FAF TO MAP: 5.49 THLD: 5.49 4. MIN. ALT: HUNDA 3600, LIMMA 1900, LADLE/1.75 NM TO RW25L 700* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: LIMMA 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.3 34:1 IS CLEAR 8. MSA FROM: RW25L 7700				MAG VAR: 12E 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
LPV DA	365	2000	261	365	2000	261	365	2000	261	365	2000	261
LNAV/VNAV DA	575	6000	471	575	6000	471	575	6000	471	575	6000	471
LNAV MDA	640	2400	536	640	2400	536	640	5500	536	640	5500	536
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 5C (41F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500. (CONTINUED ON PAGE 2)												
CITY AND STATE		ELEVATION: 128 TDZE: 104		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
LOS ANGELES, CA		AIRPORT NAME:				RNAV (GPS) Y RWY 25L, AMDT 4A			AMDT: 4			
		LOS ANGELES INTL				12 OCTOBER 2017			DATED 03/02/2017			

QUALITY
 25
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
FUELR	GAATE (TF) (FB) (RNP 1.00)	251.28 / 8.93	5000
GAATE	HUNDA (TF) (FB) (RNP 1.00)	251.20 / 4.40	3600
CLPUR (IAF)	WITZZ (TF) (FB) (RNP 1.00)	251.40 / 3.61	9000
WITZZ	JUDOH (TF) (FB) (RNP 1.00)	251.44 / 3.39	8000
JUDOH	KENZO (TF) (FB) (RNP 1.00)	251.38 / 4.30	7000
KENZO	SNNAK (TF) (FB) (RNP 1.00)	251.55 / 3.14	6300
SNNAK	GAATE (TF) (FB) (RNP 1.00)	284.54 / 6.16	5000
TRNDO (IAF)	HIPED (TF) (FB) (RNP 1.00)	341.15 / 2.10	4500
HIPED	HUNDA (TF) (FB) (RNP 1.00)	296.14 / 3.18	3600
HUNDA (IF)	LIMMA (TF) (FB) (RNP 1.00)	251.12 / 5.60	1900
LIMMA (FAF)	LADLE/1.75 NM TO RW25L (TF) (FB) (RNP 0.30)	251.07 / 3.74	
LADLE/1.75 NM TO RW25L	RW25L (MAP) (TF) (FO) (RNP 0.30)	251.07 / 1.75	
RW25L (MAP)	365 MSL (CA)	251.07	
365 MSL	ZERAN (DF) (FB) (RNP 1.00)		
ZERAN	CATLY (TF) (FO) (RNP 1.00)	186.67 / 8.68	2000

NOTES, (CONT.):

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

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH HHR 25.

CHART NOTE: LNAV ONLY APPROACH NA DURING SIMULTANEOUS OPERATIONS.

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

QUALITY
25
CHECKED

CITY AND STATE

LOS ANGELES, CA

ELEVATION: 128

TDZE: 104

AIRPORT NAME:

LOS ANGELES INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 25L, AMDT 4A

12 OCTOBER 2017

SUP:

AMDT: 4

DATED: 03/02/2017

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.

SIMULTANEOUS OPERATIONS.

CHART SPEED ICON IN PLANVIEW AT CRCUS: MAX 270 KIAS.

CHART SPEED ICON IN PLANVIEW AT SEAVU: MAX 270 KIAS.

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

QUALITY
25
CHECKED

CITY AND STATE

LOS ANGELES, CA

ELEVATION: 128

TDZE: 104

AIRPORT NAME:

LOS ANGELES INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 25L, AMDT 4A

12 OCTOBER 2017

SUP:

AMDT: **4**

DATED: **03/02/2017**

**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	KLAX
RUNWAY	RW25L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25A
LTP/FTP LATITUDE	335614.5065N
LTP/FTP LONGITUDE	1182257.7700W
LTP/FTP ELLIPSOIDAL HEIGHT	-00061
FPAP LATITUDE	335601.1385N
FPAP LONGITUDE	1182508.4660W
THRESHOLD CROSSING HEIGHT (TCH)	00054.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 1B197292

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00298
FPAP ORTHOMETRIC HEIGHT	+00298

QUALITY
25
CHECKED

CITY AND STATE LOS ANGELES, CA	ELEVATION: 128 TDZE: 104 AIRPORT NAME: LOS ANGELES INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 25L, AMDT 4A 12 OCTOBER 2017	SUP:
				AMDT: 4
				DATED: 03/02/2017

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 2000 ON TRACK 251.01 TO IGUPE AND ON TRACK 262.67 TO RAFFS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 262.00 INBOUND. DISTANCE TO THLD FROM 362 HAT: 0.97 NM. CHART MANDATORY 6000 AT DAHJR. CHART MANDATORY 5000 AT TRNDO. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH: 174.2 MSL (DO NOT CHART) CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT CRCUS. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT SEAVU. CHART KHRH IN PLANVIEW.							
CRCUS (IAF)		SKOLL (TF) (FB) (RNP 1.00)		240.97 / 10.44			10000									
SEAVU (IAF)		SKOLL (TF) (FB) (RNP 1.00)		273.88 / 10.89			10000									
SKOLL		DECOR (TF) (FB) (RNP 1.00)		251.39 / 3.60			9000									
DECOR		BREEA (TF) (FB) (RNP 1.00)		251.35 / 3.60			8000									
BREEA		PALAC (TF) (FB) (RNP 1.00)		251.31 / 3.60			7000									
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MUBME 3. FAC: <u>251.07</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: MUBME 2500, JETSA 2200 5. DIST TO THLD FROM OM: <u>6.36</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2200</u> GS ALT AT: JETSA 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.3</u> # <u>34:1</u> IS CLEAR 8. MSA FROM: RW24R 7700																
											MAG VAR: 12E EPOCH YEAR: 2020					
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT											ALTERNATE: N A		STANDARD			
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
AUTHORIZATION REQUIRED																
RNP 0.15 DA	484	4000	362	484	4000	362	484	4000	362	484	4000	362				
RNP 0.30 DA	586	6000	464	586	6000	464	586	6000	464	586	6000	464				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 5C (41F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT CRCUS : MAX 270 KIAS. CHART SPEED ICON IN PLANVIEW AT SEAVU : MAX 270 KIAS. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 128 TDZE: 122			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
LOS ANGELES, CA		AIRPORT NAME:						RNAV (RNP) Z RWY 24R, AMDT 1A				AMDT: 1				
		LOS ANGELES INTL						12 OCTOBER 2017				DATED 03/02/2017				

QUALITY
25
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	
PALAC	LIVVN (TF) (FB) (RNP 1.00)	251.30 / 3.88	6000	
LIVVN	BROUK (TF) (FB) (RNP 1.00)	251.19 / 3.20	5000	
BROUK	MERCE (TF) (FB) (RNP 1.00)	251.19 / 3.20	4000	
MERCE (IF)	MUBME (TF) (FB) (RNP 1.00)	251.16 / 6.72	2500	
DAHJR (IF)	NORPE (TF) (FB) (RNP 1.00)	071.00 / 4.84	4500	
NORPE	LAZES (RF) (FB) (RNP 1.00)	(2.10 NM RADIUS CW (CFVBD))/3.33	3500	
DARTS (IAF)	VAALE (TF) (FB) (RNP 1.00)	144.10 / 5.71	4700	
VAALE (IF)	LAZES (TF) (FB) (RNP 1.00)	161.99 / 3.79	3500	
LAZES	MUBME (RF) (FB) (RNP 1.00)	(2.10 NM RADIUS CW (CFVBD))/3.27	2500	
TRNDO (IF)	KURXO (TF) (FB) (RNP 1.00)	295.10 / 6.60	3100	
KURXO	MUBME (RF) (FB) (RNP 1.00)	(2.73 NM RADIUS CCW (CFVBF))/2.09	2500	
MUBME	JETSA (TF) (FB) (RNP 1.00)	251.07 / 1.18	2200	
JETSA (FAF)	RW24R (MAP) (TF) (FO) (RNP 0.30)	251.07 / 6.36		
RW24R (MAP)	IGUPE (TF) (FB) (RNP 1.00)	251.01 / 5.80		
IGUPE	RAFFS (TF) (FO) (RNP 1.00)	262.67 / 10.85	2000	
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT TRNDO : MAX 210 KIAS. CHART PLANVIEW NOTE ADJACENT TO DAHJR, DARTS, TRNDO: RF REQUIRED. CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 6000 AND RNP 0.30 ALL				
CITY AND STATE LOS ANGELES, CA	ELEVATION: 128 AIRPORT NAME: LOS ANGELES INTL	TDZE: 122	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 24R, AMDT 1A 12 OCTOBER 2017
				SUP:
				AMDT: 1
				DATED: 03/02/2017



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.	
CATS VISIBILITY TO 1 1/2 SM. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH HHR. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}). CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. CHART PLANVIEW NOTE AT LAZES: MAX 210 KIAS UNTIL MUMBE. CHART PLANVIEW NOTE AT DAHJR: MAX 210 KIAS UNTIL MUMBE.				
QUALITY 25 CHECKED				
CITY AND STATE LOS ANGELES, CA	ELEVATION: 128 AIRPORT NAME: LOS ANGELES INTL	TDZE: 122	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 24R, AMDT 1A 12 OCTOBER 2017
				SUP:
				AMDT: 1
				DATED: 03/02/2017

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 2000 ON TRACK 251.02 TO ZERAN AND ON TRACK 186.67 TO CATLY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 213.10 INBOUND. DISTANCE TO THLD FROM 341 HAT: 0.92 NM. CHART MANDATORY 5000 AT TRNDO. CHART MANDATORY 6000 AT DAHJR. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 152.1 MSL (DO NOT CHART) CHART MINIMUM 10000 AT CLPUR. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT CRCUS. CHART AT OR ABOVE 12000 AND AT OR BELOW 14000 AT SEAVU. CHART KHRH IN PLANVIEW.						
CRCUS (IAF)		KRAIN (TF) (FB) (RNP 1.00)			234.67 / 10.01			10000								
SEAVU (IAF)		KRAIN (TF) (FB) (RNP 1.00)			270.06 / 9.91			10000								
KRAIN		TAROC (TF) (FB) (RNP 1.00)			251.41 / 3.46			9000								
TAROC		DYMMO (TF) (FB) (RNP 1.00)			251.31 / 3.39			8000								
DYMMO (SEE FORM 8260-10)		FUELR (TF) (FB) (RNP 1.00)			251.36 / 3.90			7000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT WAVUD 3. FAC: <u>251.07</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: WAVUD 2200, LIMMA 1900 5. DIST TO THLD FROM OM: <u>5.49</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1900</u> GS ALT AT: LIMMA 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.3</u> # <u>34:1</u> IS CLEAR 8. MSA FROM: RW25L 7700										MAG VAR: 12E EPOCH YEAR: 2020						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
AUTHORIZATION REQUIRED																
RNP 0.15 DA	445	3000	341	445	3000	341	445	3000	341	445	3000	341				
RNP 0.30 DA	543	5000	439	543	5000	439	543	5000	439	543	5000	439				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 5C (41F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT CRCUS : MAX 270 KIAS. CHART SPEED ICON IN PLANVIEW AT SEAVU : MAX 270 KIAS. (CONTINUED ON PAGE 2)																
CITY AND STATE LOS ANGELES, CA		ELEVATION: 128 TDZE: 104 AIRPORT NAME: LOS ANGELES INTL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 25L, AMDT 2A 12 OCTOBER 2017						SUP: AMDT: 2 DATED 03/02/2017			

QUALITY
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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	
FUELR	GAATE (TF) (FB) (RNP 1.00)	251.28 / 8.93	5000	
CLPUR (IAF)	WITZZ (TF) (FB) (RNP 1.00)	251.40 / 3.61	9000	
WITZZ	JUDOH (TF) (FB) (RNP 1.00)	251.44 / 3.39	8000	
JUDOH	KENZO (TF) (FB) (RNP 1.00)	251.38 / 4.30	7000	
KENZO	SNNAK (TF) (FB) (RNP 1.00)	251.55 / 3.14	6300	
SNNAK	GAATE (TF) (FB) (RNP 1.00)	284.54 / 6.16	5000	
GAATE (IF)	HUNDA (TF) (FB) (RNP 1.00)	251.20 / 4.40	3600	
TRNDO (IF)	HIPED (TF) (FB) (RNP 1.00)	341.15 / 2.10	4500	
HIPED	HUNDA (RF) (FB) (RNP 1.00)	(2.25 NM RADIUS CCW (CFDVW))/3.54	3600	
HUNDA	WAVUD (TF) (FB) (RNP 1.00)	251.10 / 4.40	2200	
DAHJR (IF)	FODIG (TF) (FB) (RNP 1.00)	071.00 / 4.84	4500	
FODIG	WAVUD (RF) (FB) (RNP 1.00)	(2.60 NM RADIUS CW (CFDVV))/8.16	2200	
WAVUD	LIMMA (TF) (FB) (RNP 1.00)	251.15 / 1.20	1900	
LIMMA (FAF)	RW25L (MAP) (TF) (FO) (RNP 0.30)	251.07 / 5.49		
RW25L (MAP)	ZERAN (TF) (FB) (RNP 1.00)	251.02 / 8.78		
ZERAN	CATLY (TF) (FO) (RNP 1.00)	186.67 / 8.68	2000	
NOTES, (CONT.): CHART PLANVIEW NOTE ADJACENT TO TRNDO, DAHJR: RF REQUIRED. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.				
CITY AND STATE LOS ANGELES, CA	ELEVATION: 128 AIRPORT NAME: LOS ANGELES INTL	TDZE: 104	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 25L, AMDT 2A 12 OCTOBER 2017
				SUP:
				AMDT: 2
				DATED: 03/02/2017



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.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH HHR.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE AT TRNDO: MAX 210 KIAS UNTIL HUNDA.
CHART PLANVIEW NOTE AT DAHJR: MAX 210 KIAS UNTIL WAVUD.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.



CITY AND STATE
LOS ANGELES, CA

ELEVATION: 128 TDZE: 104
AIRPORT NAME:
LOS ANGELES INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (RNP) Z RWY 25L, AMDT 2A
12 OCTOBER 2017

SUP:
AMDT: 2
DATED: 03/02/2017

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: RW09 CLIMBING LEFT TURN TO 2000 DIRECT JOSEM AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 179 TOWER 391305N/0753821W CHART 201 TREE 391155N/0753921W CHART CIRCLING ICON. URESY TO RW9: 3.00/40. CHART DOVER AFB ATIS FREQUENCY.						
BLARE	JOSEM (TF) (FO) (RNP 2.00)			231.82 / 19.04			2000								
ENO VORTAC	JOSEM (TF) (FO) (RNP 2.00)			266.91 / 14.41			2000								
GOLDA (IAF)	JOSEM (NOPT) (TF) (FB) (RNP 1.00)			103.06 / 10.89			2000								
PRICE (IAF)	JOSEM (NOPT) (TF) (FB) (RNP 1.00)			031.86 / 4.98			2000								
JOSEM (IF/IAF)	URESY (TF) (FB) (RNP 1.00)			085.19 / 5.00			1700								
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W JOSEM, RT, 085.19 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 085.26 FAF: URESY DIST FAF TO MAP: 5.06 THLD: 5.06 4. MIN. ALT: JOSEM 2000, URESY 1700, YEHJU/2.50 NM TO RW09 880 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: RW09 1700															
										MAG VAR: 12W			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
LNAV MDA	460	1	405	460	1	405	460	1 1/8	405	460	1 1/8	405			
CIRCLING	520	1	465	820	1	765	820	2 1/4	765	820	2 1/2	765			
NOTES: CHART NOTE: RWY 9 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 GOLDA ON V312 SOUTHWEST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ENO VORTAC AIRWAY RADIALS 189 CW 226. CHART NOTE: USE DOVER AFB ALTIMETER SETTING.															
CITY AND STATE DOVER/CHESWOLD, DE			ELEVATION: 55 TDZE: 55 AIRPORT NAME: DELAWARE AIRPARK			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, ORIG 12 OCTOBER 2017			SUP:			
												AMDT: NONE			
												DATED			



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
URESJ (FAF)	YEHJU/2.50 NM TO RW09 (TF) (FB) (RNP 0.30)	085.26 / 2.56	
YEHJU/2.50 NM TO RW09	RW09 (MAP) (TF) (FO) (RNP 0.30)	085.26 / 2.50	
RW09 (MAP)	455 MSL (CA)	085.26	
455 MSL	JOSEM (DF) (FO) (RNP 1.00)		2000

QUALITY
16
CHECKED

CITY AND STATE

DOVER/CHESWOLD, DE

ELEVATION: 55

TDZE: 55

AIRPORT NAME:

DELAWARE AIRPARK

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 9, ORIG

12 OCTOBER 2017

SUP:

AMDT: **NONE**

DATED:

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ADDITIONAL FLIGHT DATA:					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. _____															
3. FAC: _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: _____															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____															
7. GS ANGLE: _____ TCH: _____															
8. MSA FROM: _____										MAG VAR: _____			EPOCH YEAR: _____		
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT															
ALTERNATE: N A															
CATEGORY =====>															
		DH/MDA VIS		DH/MDA VIS				DH/MDA VIS				DH/MDA VIS			
NOTES:															
PROCEDURE CANCELED EFFECTIVE 12 OCTOBER 2017															
CITY AND STATE DOVER/CHESWOLD, DE		ELEVATION: 55 TDZE: 55 AIRPORT NAME: DELAWARE AIRPARK		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 2A, 05/28/2015				SUP: RNAV (GPS) RWY 9		AMDT: 2		DATED 07/26/2012	

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH									
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LP: RW27 LNAV: RW27										
TACKS				JODSI (TF) (FB) (RNP 2.00)			089.21 / 20.66				3000		CLIMB TO 2000 DIRECT JOSEM AND HOLD.										
BLARE				JODSI (TF) (FB) (RNP 2.00)			123.94 / 7.68				3000												
BRIEF				WOVAL (TF) (FB) (RNP 2.00)			237.61 / 10.98				3000												
LEEAH				UFATU (TF) (FB) (RNP 2.00)			284.46 / 10.00				3000												
JODSI (IAF)				SOPHY (NOPT) (TF) (FB) (RNP 1.00)			176.43 / 5.80				3000		ADDITIONAL FLIGHT DATA: HOLD W, RT, 085.19 INBOUND. CHART FAS OBST: 161 COMMUNICATION TWR 391334N/0753427W CHART FAS OBST: 192 TANK 391347N/0753525W WAAS CHANNEL # 78041 REFERENCE PATH ID: W27A CHART CIRCLING ICON. OZIGY TO RW27: 3.00/55. CHART DOVER AFB ATIS. LTP HAE: -20.4 M										
(SEE FORM 8260-10)																							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 12W EPOCH YEAR: 1995									
2. PROFILE STARTS AT SOPHY																							
3. FAC: 265.40 FAF: OZIGY DIST FAF TO MAP: 5.02 THLD: 5.02																							
4. MIN. ALT: SOPHY 3000, OZIGY 1700, OZAFY/2.50 NM TO RW27 880																							
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: RW27 1700																							
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	440	1	385	440	1	385	440	1 1/8	385	440	1 1/8	385											
LNAV MDA	480	1	425	480	1	425	480	1 1/4	425	480	1 1/4	425											
CIRCLING	520	1	465	820	1	765	820	2 1/4	765	820	2 1/2	765											
NOTES: CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART SPEED ICON IN PLANVIEW AT JODSI : MAX 210 KIAS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TACKS ON V123-312 SOUTHWEST BOUND. (CONTINUED ON PAGE 2)																							
CITY AND STATE DOVER/CHESWOLD, DE				ELEVATION: 55 TDZE: 55 AIRPORT NAME: DELAWARE AIRPARK				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, ORIG 12 OCTOBER 2017					SUP: AMDT: NONE DATED								

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WOVAL (IAF)	SOPHY (NOPT) (TF) (FB) (RNP 1.00)	240.21 / 4.38	3000
UFATU (IAF)	SOPHY (NOPT) (TF) (FB) (RNP 1.00)	283.49 / 9.27	3000
SOPHY (IF)	OZIGY (TF) (FB) (RNP 1.00)	266.16 / 6.00	1700
OZIGY (FAF)	OZAFY/2.50 NM TO RW27 (TF) (FB) (RNP 0.30)	265.40 / 2.52	
OZAFY/2.50 NM TO RW27	RW27 (MAP) (TF) (FO) (RNP 0.30)	265.40 / 2.50	
RW27 (MAP)	440 MSL (CA)	265.40	
440 MSL	JOSEM (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BLARE ON V29 NORTHBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRIEF ON V16 NORTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LEEAH ON V268 EASTBOUND, V229 NORTHEAST BOUND, AND V1 NORTHEAST BOUND.

CHART NOTE: USE DOVER AFB ALTIMETER SETTING.

QUALITY
6
CHECKED

CITY AND STATE DOVER/CHESWOLD, DE	ELEVATION: 55 AIRPORT NAME: DELAWARE AIRPARK	TDZE: 55	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, ORIG 12 OCTOBER 2017	SUP:
					AMDT: NONE
					DATED:

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	33N
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	391313.2680N
LTP/FTP LONGITUDE	0753536.1075W
LTP/FTP ELLIPSOIDAL HEIGHT	-00204
FPAP LATITUDE	391247.6775N
FPAP LONGITUDE	0753725.9295W
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	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

55A48535

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00137
FPAP ORTHOMETRIC HEIGHT	+00137

QUALITY
6
CHECKED

CITY AND STATE DOVER/CHESWOLD, DE	ELEVATION: 55 AIRPORT NAME: DELAWARE AIRPARK	TDZE: 55 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, ORIG 12 OCTOBER 2017	SUP:
				AMDT: NONE
				DATED:

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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

TERMINAL ROUTES						MISSED APPROACH										
FROM		TO		COURSE AND DISTANCE		ALTITUDE										
								ADDITIONAL FLIGHT DATA:								
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)										MAG VAR: _____ EPOCH YEAR: _____						
2. _____																
3. FAC: _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____																
4. MIN. ALT: _____																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																
7. GS ANGLE: _____ TCH: _____																
8. MSA FROM: _____																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A										
CATEGORY =====>																
	DH/MDA	VIS		DH/MDA	VIS		DH/MDA	VIS		DH/MDA	VIS		DH/MDA	VIS		
NOTES:																
PROCEDURE CANCELED EFFECTIVE <u>12 OCTOBER 2017</u>																
CITY AND STATE DOVER/CHESWOLD, DE		ELEVATION: 55 TDZE: 55 AIRPORT NAME: DELAWARE AIRPARK				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1B, 05/28/2015				SUP: RNAV (GPS) RWY 27 AMDT: 1A DATED 08/22/2013				

**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>
DOVER/CHESWOLD, DE	DELAWARE AIRPARK	12 OCTOBER 2017	ORIG

TAKEOFF MINIMUMS:
RWY 09, 27: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 09: TERRAIN 13 FT FROM DER, 56 FT RIGHT OF CENTERLINE, 48 FT MSL. TREE 65 FT FROM DER, 306 FT LEFT OF CENTERLINE, 95 FT AGL/132 FT MSL. TREE 74 FT FROM DER, 310 FT RIGHT OF CENTERLINE, 59 FT MSL. TREES BEGINNING 83 FT FROM DER, 333 FT LEFT OF CENTERLINE, UP TO 97 FT AGL/134 FT MSL. TREE, TRAVERSE WAY, TRANSMISSION LINE, POLES BEGINNING 131 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 125 FT MSL. TREES, POLES, TRANSMISSION LINE BEGINNING 356 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 103 FT AGL/138 FT MSL. TREES BEGINNING 2106 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 151 FT MSL. TREES BEGINNING 2285 FT FROM DER, 405 FT RIGHT OF CENTERLINE, UP TO 132 FT MSL. TREES, TOWER BEGINNING 2320 FT FROM DER, 23 FT RIGHT OF CENTERLINE, UP TO 101 FT AGL/133 FT MSL.

NOTE: RWY 27: VERTICAL STRUCTURE 14 FT FROM DER, 67 FT RIGHT OF CENTERLINE, 5 FT AGL/50 FT MSL. TREE 19 FT FROM DER, 314 FT RIGHT OF CENTERLINE, 105 FT MSL. TREE 37 FT FROM DER, 413 FT LEFT OF CENTERLINE, 72 FT MSL. TREES BEGINNING 104 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 130 FT MSL. TREE 134 FT FROM DER, 315 FT LEFT OF CENTERLINE, 74 FT MSL. TREES BEGINNING 188 FT FROM DER, 303 FT LEFT OF CENTERLINE, UP TO 94 FT MSL. TREE 417 FT FROM DER, 494 FT RIGHT OF CENTERLINE, 149 FT MSL. TREES BEGINNING 418 FT FROM DER, 552 FT LEFT OF CENTERLINE, UP TO 96 FT MSL. TREES BEGINNING 420 FT FROM DER, 414 FT RIGHT OF CENTERLINE, UP TO 108 FT AGL/154 FT MSL. TREE 611 FT FROM DER, 653 FT LEFT OF CENTERLINE, 141 FT MSL. TREES BEGINNING 667 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 150 FT MSL. TREES BEGINNING 884 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 161 FT MSL. TREES BEGINNING 2360 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 102 FT AGL/151 FT MSL. TREES BEGINNING 2500 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 105 FT AGL/155 FT MSL. TREES BEGINNING 2634 FT FROM DER, 42 FT LEFT OF CENTERLINE, UP TO 161 FT MSL. TREES BEGINNING 2697 FT FROM DER, 15 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/163 FT MSL. TREES BEGINNING 2972 FT FROM DER, 24 FT RIGHT OF CENTERLINE, UP TO 113 FT AGL/165 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY:

Digitally signed by

DION E LANCIA

Aug 22, 2017

OFFICE SYMBOL:

FICO

DATE:

8/16/17

DEVELOPED BY:

Digitally signed by

DION E LANCIA

Aug 22, 2017

OFFICE SYMBOL:

AJV-5423

DATE:

02/15/2017

APPROVED BY:

Digitally signed by

DION E LANCIA

Aug 22, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA



OTHER:

ZDC, DOV APP CON, AMGR, EASTERN FPT.

CHANGES - REASONS:

CHANGES: ORIGINAL.



**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

DOVER/CHESWOLD, DE

AIRPORT

DELAWARE AIRPARK

EFFECTIVE DATE

12 OCTOBER 2017

AMDT NO

ORIG

REASONS: NEWLY CONSTRUCTED RUNWAY 09/27 APPROXIMATELY 400 FT NORTH OF CURRENTLY ACTIVE RUNWAY 09/27. OLD RUNWAY WILL BECOME A TAXIWAY.



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>
DOVER/CHESWOLD, DE	DELAWARE AIRPARK	7/5/2007	ORIG

TAKEOFF MINIMUMS:

Procedure Canceled Effective 12 OCTOBER 2017

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

DION LANCIA (WILLIAM HANBY) *Digitally signed by*
DION E LANCIA

OFFICE SYMBOL:
AJV-5423

DATE:
07/05/2007

APPROVED BY:

JULIE MORGAN *Digitally signed by*
DION E LANCIA
Aug 22, 2017

OFFICE SYMBOL:
AJV-5420

DATE:

REQUIRED EFFECTIVE DATE: CONCURRENT K33N RNASV (GPS) RWY 9, ORIG

COORDINATED WITH:

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

OTHER:

ZDC, DOV APP CON, AMGR, EASTERN FPT.

CHANGES - REASONS:

REASONS: CANCELLATION CONCURRENT WITH PUBLICATION OF TEXTUAL DEPARTURE FOR NEWLY CONSTRUCTED RUNWAY 09/27 APPROXIMATELY 400 FT NORTH OF CURRENTLY ACTIVE RUNWAY 09/27 WHICH WILL BECOME A TAXIWAY.



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: RW27									
										CLIMB TO 2000 ON ENO VORTAC R-264 TO JOSEM/14.41 DME AND HOLD.									
										ADDITIONAL FLIGHT DATA: HOLD W, RT, 083.91 INBOUND. FAS OBST: 192 TANK 391347N/0753525W 220 AAO 391251N/0753112W CHART CIRCLING ICON. SMYRNA VORTAC TO RW27: 3.08/55. CHART DOVER AFB ATIS.									
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																			
2. HOLD E ENO VORTAC, RT, 268.40 INBOUND, 1500 FT. IN LIEU OF PT (IAF)																			
3. FAC 268.40 FAF ENO VORTAC DIST FAF TO MAP 3.67 THLD 3.67																			
4. MIN. ALT ENO VORTAC 1300																			
8. MSA FROM: ENO VORTAC 1700										MAG VAR: 9W 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				
S-27	480	1	425	480	1	425	480	1 1/4	425	480	1 1/4	425							
CIRCLING	520	1	465	820	1	765	820	2 1/4	765	820	2 1/2	765							
NOTES:																			
CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																			
CHART NOTE: DME REQUIRED.																			
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON ENO VORTAC AIRWAY RADIALS R-031, R-044, R-063 AND R-095.																			
CHART NOTE: USE DOVER AFB ALTIMETER SETTING.																			
CITY AND STATE		ELEVATION: 55 TDZE: 55				FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP					
DOVER/CHESWOLD, DE		AIRPORT NAME:				ENO		VOR RWY 27, ORIG 12 OCTOBER 2017						AMDT NONE					
		DELAWARE AIRPARK												DATE					



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)										MAG VAR: EPOCH YEAR:									
2. _____																			
3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____																			
4. MIN. ALT ____																			
8. MSA FROM: _____																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 12 OCTOBER 2017																			
CITY AND STATE DOVER/CHESWOLD, DE				ELEVATION: 55 TDZE: 55 AIRPORT NAME: DELAWARE AIRPARK				FACILITY IDENTIFIER: ENO				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 27, AMDT 6C, 05/28/2015				SUP AMDT 6B DATE 07/26/2012			

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: 4.15 NM AFTER OHY NDB							
OKBAE (IF/IAF)			OHY NDB			103.50 / 6.00 (I-CKF)				1700		CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2200 DIRECT OHY NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2200.							
										ADDITIONAL FLIGHT DATA: HOLD W, RT, 103.50 INBOUND. CHART FAS OBST: 400 TREE 315928N/0834729W 520 AAO 320012N/0835054W CHART CIRCLING ICON. OHY NDB TO RW10: 3.08/42. CHART PLANVIEW NOTE: RNAV 1-GPS OR RADAR REQUIRED.									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																			
2. HOLD W OKBAE, RT, 103.50 INBOUND, 2200 FT. IN LIEU OF PT (IAF)																			
3. FAC 103.50 FAF OHY NDB										DIST FAF TO MAP 4.15 THLD 4.15									
4. MIN. ALT OKBAE 2200, OHY NDB 1700																			
8. MSA FROM: OHY NDB 2300										MAG VAR: 6W EPOCH YEAR: 2020									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X									
CATEGORY =====>		A			B			C			D			E					
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA				
S-10	660	1	352	660	1	352	660	1	352	660	1	352							
CIRCLING	760	1	450	820	1	510	1080	2 1/4	770	1160	2 3/4	850							
NOTES:																			
CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																			
CHART NOTE: ADF REQUIRED.																			
CHART NOTE: CIRCLING RWY 28 NA AT NIGHT.																			
(CONTINUED ON PAGE 2)																			
CITY AND STATE CORDELE, GA				ELEVATION: 310 TDZE: 308 AIRPORT NAME: CRISP COUNTY-CORDELE				FACILITY IDENTIFIER: I-CKF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC RWY 10, AMDT 1 12 OCTOBER 2017						SUP AMDT ORIG-D DATE 10/13/2016			



**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.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBANY ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET AND INCREASE S-10 CAT C/D VISIBILITY 1/8 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-10.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-10 CAT A/B WHEN USING ALBANY ALTIMETER SETTING.

CHART NOTE: FOR INOPERATIVE ALS, WHEN USING ALBANY ALTIMETER SETTING INCREASE S-10 CAT C/D VISIBILITY TO 1 3/8 SM.

QUALITY
6
CHECKED

CITY AND STATE

CORDELE, GA

ELEVATION: 310**TDZE: 308**

AIRPORT NAME:

CRISP COUNTY-CORDELE

FACILITY
IDENTIFIER:
I-CKF

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC RWY 10, AMDT 1

12 OCTOBER 2017

SUP:

AMDT: **ORIG-D**DATED: **10/13/2016**

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		LNAV: RW30					
IOW VOR/DME		OCUCI (TF) (FB) (RNP 2.00)		107.96 / 10.33				3000		CLIMBING LEFT TURN TO 3000 DIRECT ICWAR AND HOLD.					
MOSCO (IAF)		ICWAR (NOPT) (TF) (FB) (RNP 1.00)		238.71 / 7.85				3000							
OCUCI (IAF)		ICWAR (NOPT) (TF) (FB) (RNP 1.00)		032.79 / 5.00				3000		ADDITIONAL FLIGHT DATA: CHART FAS OBST: 829 TREE 413807N/0913141W CURTT TO RW30: 3.04/40.					
ICWAR (IF/IAF)		CURTT (TF) (FB) (RNP 1.00)		302.81 / 6.00				2400							
CURTT (FAF)		JUPKU/3.20 NM TO RW30 (TF) (FB) (RNP 0.30)		302.73 / 2.10											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. HOLD SE ICWAR, RT, 302.81 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: 302.73 FAF: CURTT DIST FAF TO MAP: 5.30 THLD: 5.30															
4. MIN. ALT: ICWAR 3000, CURTT 2400, JUPKU/3.20 NM TO RW30 1720															
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: RW30 3300															
MAG VAR: 2E EPOCH YEAR: 1985															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @			
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1100	1	443	1100	1	443		NA			NA				
CIRCLING	1260	1	576	1260	1	576		NA			NA				
NOTES: CHART NOTE: NIGHT LANDING: RWY 7, 12, 30 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CEDAR RAPIDS ALTIMETER SETTING AND (CONTINUED ON PAGE 2)															
CITY AND STATE IOWA CITY, IA		ELEVATION: 684 TDZE: 657 AIRPORT NAME: IOWA CITY MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, ORIG-B 12 OCTOBER 2017						SUP: AMDT: ORIG-A DATED 07/21/2016			

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
JUPKU/3.20 NM TO RW30	RW30 (MAP) (TF) (FO) (RNP 0.30)	302.73 / 3.20	
RW30 (MAP)	1084 MSL (CA)	302.73	
1084 MSL	ICWAR (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

INCREASE ALL MDA 80 FEET.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IOW VOR/DME ON AIRWAY RADIALS 057 CW 142.

QUALITY
24
CHECKED

CITY AND STATE

IOWA CITY, IA

ELEVATION: 684

TDZE: 657

AIRPORT NAME:

IOWA CITY MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, ORIG-B

12 OCTOBER 2017

SUP:

AMDT: ORIG-A

DATED: 07/21/2016

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		LNAV: XOYTY								
DNJ VOR/DME				JALUL (TF) (FO) (RNP 2.00)			005.70 / 27.74			10800		CLIMB TO 11700 DIRECT UDABE AND ON TRACK 158.43 TO PEPUC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11700.								
KOVRY				JALUL (TF) (FO) (RNP 2.00)			080.54 / 16.70			10800										
JALUL (IF/IAF)				HETSO (TF) (FB) (RNP 1.00)			180.69 / 6.30			9500										
HETSO				LUHPY (TF) (FB) (RNP 1.00)			180.71 / 2.90			9000										
LUHPY (FAF)				FIKVO/4.20 NM TO XOYTY (TF) (FB) (RNP 0.30)			181.42 / 5.13					ADDITIONAL FLIGHT DATA: HOLD S, LT, 339.70 INBOUND. CHART FAS OBST: 5254 TREE 445414N/1160535W CHART: 7010 AAO 450321N/1160112W 5505 AAO 445744N/1160454W CHART CIRCLING ICON. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 15.81 DEGREES.								
(SEE FORM 8260-10)																				
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 13E EPOCH YEAR: 2020						
2. HOLD N JALUL, RT, 180.69 INBOUND, 10800 FT. IN LIEU OF PT (IAF)																				
3. FAC: 181.42 FAF: LUHPY DIST FAF TO MAP: 9.33 THLD: 9.80																				
4. MIN. ALT: JALUL 10800, HETSO 9500, LUHPY 9000, FIKVO/4.20 NM TO XOYTY 6940, EGNAJ/1.70 NM TO XOYTY 5940																				
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: XOYTY 10600																				
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	5520	1	496	5520	1	496	5520	1 3/8	496		NA									
CIRCLING	5940	1 1/4	916	5940	1 1/4	916	6140	3	1116		NA									
NOTES: CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. @ CAT A, B 1000-2, CAT C 1200-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DNJ VOR/DME AIRWAY RADIALS 325 CW 083. CHART NOTE: STRAIGHT-IN RWY 16 NA AT NIGHT, CIRCLING RWY 16 NA AT NIGHT.																				
CITY AND STATE MC CALL, ID			ELEVATION: 5024 TDZE: 5024 AIRPORT NAME: MC CALL MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1 12 OCTOBER 2017					SUP: AMDT: ORIG DATED 04/08/2010						



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
FIKVO/4.20 NM TO XOYTY	EGNAJ/1.70 NM TO XOYTY (TF) (FB) (RNP 0.30)	181.42 / 2.50	
EGNAJ/1.70 NM TO XOYTY	XOYTY (MAP) (TF) (FO) (RNP 0.30)	181.42 / 1.70	
XOYTY (MAP)	5424 MSL (CA)	181.42	
5424 MSL	UDABE (DF) (FB) (RNP 1.00)		
UDABE	PEPUC (TF) (FO) (RNP 1.00)	158.43 / 15.66	11700

QUALITY
9
CHECKED

CITY AND STATE

MC CALL, ID

ELEVATION: 5024

TDZE: 5024

AIRPORT NAME:

MC CALL MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, AMDT 1

12 OCTOBER 2017

SUP:

AMDT: ORIG

DATED: 04/08/2010

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES											MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW34 CLIMB TO 5600 THEN CLIMBING LEFT TURN TO 12000 DIRECT WADPO AND ON TRACK 243.02 TO SUMOQ AND HOLD, CONTINUE CLIMB-IN-HOLD TO 12000. *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 260 FEET PER NM TO 6100. ADDITIONAL FLIGHT DATA: HOLD W, RT, 103.72 INBOUND. CHART FAS OBST: 5223 TREE 445214N/1160535W DISTANCE TO THLD FROM 306 HAT: 0.69 NM. WAAS CHANNEL # 49016 REFERENCE PATH ID: W34A CHART CIRCLING ICON. LTP HAE: 1510.9 M							
DNJ VOR/DME		PEPUC (TF) (FO) (RNP 2.00)			137.80 / 12.13			10200									
SIDZY (IAF)		PEPUC (TF) (FB) (RNP 1.00)			317.93 / 6.00			10000									
PEPUC (IF/IAF)		VACUA (TF) (FB) (RNP 1.00)			340.35 / 10.86			7500									
VACUA (FAF)		RW34 (MAP) (TF) (FO) (RNP 0.30)			345.61 / 6.60												
RW34 (MAP)		5600 MSL (CA)			345.61			5600									
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S PEPUC, LT, 339.70 INBOUND, 10000 FT. IN LIEU OF PT (IAF) 3. FAC: 345.61 FAF: VACUA DIST FAF TO MAP: 6.60 THLD: 6.60 4. MIN. ALT: PEPUC 10000, VACUA 7500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 7500 GS ALT AT: VACUA 7500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.50 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: RW34 10600																	
											MAG VAR: 13E					EPOCH YEAR: 2020	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	5318	7/8	306	5318	7/8	306	5318	7/8	306	5318	7/8	306					
LNAV/VNAV DA	5683	2	671	5683	2	671	5683	2	671	5683	2	671					
LNAV MDA	5680	1	668	5680	1	668	5680	1 7/8	668	5680	1 7/8	668					
LNAV MDA*	5520	1	508	5520	1	508	5520	1 3/8	508	5520	1 3/8	508					
CIRCLING	5700	1	676	5920	1 1/4	896	6140	3	1116	6660	3	1636					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23C (-9F) OR ABOVE 5C (41F). @ CAT B 900-2, CAT C 1200-3, CAT D 1700-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: CIRCLING RWY 16 NA AT NIGHT.																	
CITY AND STATE		ELEVATION: 5024 TDZE: 5012			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) Z RWY 34						
MC CALL, ID		AIRPORT NAME:			MC CALL MUNI		RNAV (GPS) RWY 34, AMDT 1				AMDT: ORIG-A						
							12 OCTOBER 2017				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.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
5600 MSL	WADPO (DF) (FB) (RNP 1.00)		
WADPO	SUMOQ (TF) (FO) (RNP 1.00)	243.02 / 16.57	12000

QUALITY
16
CHECKED

CITY AND STATE

MC CALL, ID

ELEVATION: 5024

TDZE: 5012

AIRPORT NAME:

MC CALL MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, AMDT 1

12 OCTOBER 2017

SUP: RNAV (GPS) Z RWY
34

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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMYL
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	445249.3090N
LTP/FTP LONGITUDE	1160605.2770W
LTP/FTP ELLIPSOIDAL HEIGHT	+15109
FPAP LATITUDE	445418.3750N
FPAP LONGITUDE	1160608.3180W
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	0888
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

79969893

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+15259
FPAP ORTHOMETRIC HEIGHT	+15259

QUALITY
16
CHECKED

CITY AND STATE MC CALL, ID	ELEVATION: 5024 TDZE: 5012 AIRPORT NAME: MC CALL MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34, AMDT 1 12 OCTOBER 2017	SUP: RNAV (GPS) Z RWY 34
				AMDT: ORIG-A
				DATED: 06/27/2013

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: 4.58 NM AFTER BALLL LOM/MIE 4.77 DME CLIMB TO 1460 THEN CLIMBING RIGHT TURN TO 2900 DIRECT BALLL LOM AND HOLD. ALTERNATE MA (DO NOT CHART): ; OR WHEN DIRECTED BY ATC, CLIMB TO 2800 ON MIE VOR/DME R-323 TO FOOTE INT AND HOLD SE, RT, 323.00 INBOUND. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 319.11 INBOUND. CHART FAS OBST: 1087 TOWER 401131N/0851951W CHART VDP AT 1.38 DME* DISTANCE VDP TO THLD 1.18 NM. *LOC ONLY. CHART CIRCLING ICON. CHART (CFVZ) AT 400631.17N/0851350.25W. CHART PLANVIEW NOTE: ADF OR DME REQUIRED.					
MIE VOR/DME		BALLL LOM/MIE 4.77 DME			138.16 / 4.77				2900							
1. PT <u> L </u> SIDE OF COURSE <u>139.11</u> OUTBOUND <u>2900</u> FT WITHIN <u>10</u> MILES OF <u> BALLL LOM </u> (IAF) 2. _____ 3. FAC: <u> 319.11 </u> FAF: <u> BALLL LOM/MIE 4.77 DME </u> DIST FAF TO MAP: <u> 4.57 </u> THLD: <u> 4.57 </u> 4. MIN. ALT: <u> BALLL LOM/MIE 4.77 DME 2500 </u> 5. DIST TO THLD FROM OM: <u> 4.57 </u> MM: <u> - </u> IM: <u> - </u> 150 HAT: <u> - </u> 100 HAT: <u> - </u> GS ANT: <u> 1002 </u> 6. MIN GS INCPT: <u> 2500 </u> GS ALT AT: <u> - </u> OM: <u> 2462 </u> MM: <u> - </u> IM: <u> - </u> 7. GS ANGLE: <u> 3.00 </u> TCH: <u> 52.0 </u> 8. MSA FROM: <u> JN LOM 2900 </u>											MAG VAR: 3W		EPOCH YEAR: 1985			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @					
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 32	1137	1/2	200	1137	1/2	200	1137	1/2	200	1137	1/2	200				
S-LOC 32	1380	1/2	443	1380	1/2	443	1380	7/8	443	1380	7/8	443				
CIRCLING	1460	1	523	1460	1	523	1500	1 1/2	563	1600	2	663				
FORT WAYNE ALTIMETER SETTING MINIMUMS																
S-ILS 32	1257	5/8	320	1257	5/8	320	1257	5/8	320	1257	5/8	320				
S-LOC 32	1520	1/2	583	1520	1/2	583	1520	1 1/2	583	1520	2 1/2	583				
CIRCLING	1580	1	643	1580	1	643	1600	1 3/4	663	1720	2 1/2	783				
NOTES: CHART NOTE: WHEN CONTROL TOWER CLOSED, EXCEPT FOR OPERATIONS WITH APPROVED WEATHER REPORTING USE FORT WAYNE ALTIMETER SETTING. CHART NOTE: FOR INOPERATIVE MALSR WHEN USING FORT WAYNE ALTIMETER SETTING MINIMUMS, INCREASE S-ILS 32 VISIBILITY TO 1 SM. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 937 TDZE: 937				FACILITY IDENTIFIER: I-JNK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
MUNCIE, IN		AIRPORT NAME: DELAWARE COUNTY RGNL						ILS OR LOC RWY 32, AMDT 9D 12 OCTOBER 2017				AMDT: 9C				
												DATED 06/27/2013				



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 FORT WAYNE ALTIMETER SETTING: INCREASE DA TO 1257 FEET AND VISIBILITY ALL CATS ¼ SM; INCREASE ALL MDAS 120 FEET AND VISIBILITY CAT C 5/8 SM, CAT D 1 5/8 SM.
CHART NOTE: VDP NA WHEN USING FORT WAYNE ALTIMETER SETTING.



CITY AND STATE MUNCIE, IN	ELEVATION: 937 TDZE: 937 AIRPORT NAME: DELAWARE COUNTY RGNL	FACILITY IDENTIFIER: I-JNK	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 32, AMDT 9D 12 OCTOBER 2017	SUP:
				AMDT: 9C
				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: RW32									
MIE VOR/DME				CITUK (TF) (FO) (RNP 2.00)				138.69 / 11.19				2900		CLIMB TO 2800 DIRECT JOGBA AND HOLD.									
WAMBO (IAF)				CITUK (NOPT) (TF) (FB) (RNP 1.00)				330.34 / 3.30				2900											
CITUK (IF/IAF)				PEYIV (TF) (FB) (RNP 1.00)				319.22 / 6.00				2600											
PEYIV (FAF)				RW32 (MAP) (TF) (FO) (RNP 0.30)				319.16 / 4.99															
RW32 (MAP)				1241 MSL (CA)				319.16						ADDITIONAL FLIGHT DATA: HOLD NW, RT, 139.00 INBOUND. CHART FAS OBST: 1073 TOWER 401338N/0852214W CHART FAS OBST: 1199 AAO 401149N/0851917W DISTANCE TO THLD FROM 304 HAT: 0.78 NM. CHART VDP AT 1.21 NM TO RW32* *LNAV ONLY. WAAS CHANNEL # 72601 REFERENCE PATH ID: W32A CHART CIRCLING ICON. LTP HAE: 251.6 M									
1241 MSL				JOGBA (DF) (FO) (RNP 1.00)								2800											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 3W EPOCH YEAR: 1985									
2. HOLD SE CITUK, RT, 319.22 INBOUND, 2900 FT. IN LIEU OF PT (IAF)																							
3. FAC: 319.16 FAF: PEYIV DIST FAF TO MAP: 4.99 THLD: 4.99																							
4. MIN. ALT: CITUK 2900, PEYIV 2600																							
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																							
6. MIN GS INCPT: 2600 GS ALT AT: PEYIV 2600 OM: _____ MM: _____ IM: _____																							
7. GS ANGLE: 3.04 TCH: 51.9 34:1 IS CLEAR																							
8. MSA FROM: RW32 2900																							
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD @													
CATEGORY =====>		A			B			C			D			E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
LPV DA	1241	1/2	304	1241	1/2	304	1241	1/2	304	1241	1/2	304											
LNAV/VNAV DA	1396	1 1/8	459	1396	1 1/8	459	1396	1 1/8	459	1396	1 1/8	459											
LNAV MDA	1460	1/2	523	1460	1/2	523	1460	1	523	1460	1	523											
CIRCLING	1460	1	523	1460	1	523	1480	1 1/2	543	1560	2	623											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FORT WAYNE INTERNATIONAL ALTIMETER SETTING. CHART NOTE: FOR INOPERATIVE MALS R WHEN USING FORT WAYNE INTL ALTIMETER SETTING, INCREASE LPV ALL CATS (CONTINUED ON PAGE 2)																							
CITY AND STATE MUNCIE, IN				ELEVATION: 937 TDZE: 937 AIRPORT NAME: DELAWARE COUNTY RGNL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-B 12 OCTOBER 2017					SUP: AMDT: ORIG-A DATED 06/27/2013								

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.

NOTES, (CONT.):

VISIBILITY TO 1 1/2 MILE.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WAYNE INTL ALTIMETER SETTING AND INCREASE DA 121 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY BY 1/2 MILE; INCREASE ALL MDA 140 FEET AND LNAV VISIBILITY CATS C AND D TO 1 1/4; INCREASE CIRCLING VISIBILITY CATS C AND D BY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE ALL LPV CATS VISIBILITY TO 1 SM.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MIE VOR/DME AIRWAY RADIALS 090 CW 109.

QUALITY
4
CHECKED

CITY AND STATE
MUNCIE, IN

ELEVATION: 937 TDZE: 937
AIRPORT NAME:
DELAWARE COUNTY RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 32, ORIG-B
12 OCTOBER 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	KMIE
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	401409.1250N
LTP/FTP LONGITUDE	0852323.1395W
LTP/FTP ELLIPSOIDAL HEIGHT	+02516
FPAP LATITUDE	401513.3800N
FPAP LONGITUDE	0852443.8200W
THRESHOLD CROSSING HEIGHT (TCH)	00051.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 4E5FD5F7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02854
FPAP ORTHOMETRIC HEIGHT	+02854

QUALITY
4
CHECKED

CITY AND STATE MUNCIE, IN	ELEVATION: 937 AIRPORT NAME: DELAWARE COUNTY RGNL	TDZE: 937 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-B 12 OCTOBER 2017	SUP:
				AMDT: ORIG-A
				DATED: 06/27/2013

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: 5.37 NM AFTER WOBMU INT/LWM 7.71 DME OR AT LWM 2.34 DME CLIMB TO 2000 DIRECT LWM VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. ALTERNATE MA (DO NOT CHART): CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2000 DIRECT HAGET LOM AND HOLD. (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD NE, RT, 236.61 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW HAGET LOM/INT/LWM 7.34 DME, RT, 053.14 INBOUND. CHART FAS OBST: 295 STACK 424218N/0710829W CHART IN PLANVIEW: HAGET LOM/INT/LWM 7.34 DME. CHART CIRCLING ICON. CHART IN PLANVIEW: (CFMDR) (423341.46N/0711715.25W). CHART LW LOM IN HALF-TONE.					
MHT VOR/DME		WOBMU INT/LWM 7.71 DME			166.83 / 15.52			2100							
BOS VOR/DME		WOBMU INT/LWM 7.71 DME			346.77 / 19.45			2000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW WOBMU, RT, 053.17 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 053.17 FAF: WOBMU INT/LWM 7.71 DME DIST FAF TO MAP: 5.37 THLD: 5.37 4. MIN. ALT: WOBMU INT/LWM 7.71 DME 1900, GRAPS INT/LWM 4.04 DME 720* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 950 6. MIN GS INCPT: 1900 GS ALT AT: WOBMU 1900 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 55.7 8. MSA FROM: LWM VOR/DME 090-180 1900, 180-090 2800											MAG VAR: 15W		EPOCH YEAR: 1980		
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 05	394	3/4	250	394	3/4	250	394	3/4	250	394	3/4	250			
S-LOC 05	720	1	576	720	1	576	720	1 3/4	576	720	1 3/4	576			
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072			
GRAPS FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 05	580	1	436	580	1	436	580	1 3/8	436	580	1 3/8	436			
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072			
NOTES: *LOC ONLY CHART NOTE: CIRCLING TO RWY 32 NA AT NIGHT															
#@ NA WHEN CONTROL TOWER CLOSED. # CAT C 700-2, CAT D 1100-3 @ CAT D 1100-3															
CITY AND STATE		ELEVATION: 148 TDZE: 144		FACILITY IDENTIFIER: I-LWM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: ILS OR LOC Y RWY					
LAWRENCE, MA		AIRPORT NAME:		LAWRENCE MUNI		ILS Y OR LOC Y RWY 5, AMDT 5, 10/12/2017				5					
										AMDT: 4					
										DATED 06/30/2011					



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

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CITY AND STATE LAWRENCE, MA	ELEVATION: 148 TDZE: 144 AIRPORT NAME: LAWRENCE MUNI	FACILITY IDENTIFIER: I-LWM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Y OR LOC Y RWY 5, AMDT 5, 10/12/2017	SUP: ILS OR LOC Y RWY 5
				AMDT: 4
				DATED: 06/30/2011

ILS - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				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: 5.37 NM AFTER WOBMU INT/LWM 7.71 DME OR AT LWM 2.34 DME CLIMB TO 2000 DIRECT LWM VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000. **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 235 FEET PER NM TO 1500; IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS Y OR LOC Y RWY 5. ALTERNATE MA (DO NOT CHART): ,CLIMB TO 1000 THEN (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD NE, RT, 236.61 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW HAGET LOM/INT/LWM 7.34 DME, RT, 053.14 INBOUND. CHART FAS OBST: 295 STACK 424218N/0710829W CHART LW LOM IN HALF-TONE. CHART IN PLANVIEW: HAGET LOM/INT/LWM 7.34 DME. CHART CIRCLING ICON. CHART IN PLANVIEW: (CFMDR) (423341.46N/0711715.25W).					
MHT VOR/DME		WOBMU INT/LWM 7.71 DME		166.83 / 15.52				2100							
BOS VOR/DME		WOBMU INT/LWM 7.71 DME		346.77 / 19.45				2000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW WOBMU, RT, 053.17 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 053.17 FAF: _____ DIST FAF TO MAP: 5.37 THLD: 5.37 4. MIN. ALT: WOBMU INT/LWM 7.71 DME 1900, GRAPS INT/LWM 4.04 DME 720* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 950 6. MIN GS INCPT: 1900 GS ALT AT: WOBMU INT/LWM 7.71 DME 1900 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 55.7 8. MSA FROM: LWM VOR/DME 226-316 1900, 316-226 2800										MAG VAR: 15W		EPOCH YEAR: 1980			
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 05**	344	3/4	200	344	3/4	200	344	3/4	200	344	3/4	200			
S-LOC 05	720	1	576	720	1	576	720	1 5/8	576	720	1 5/8	576			
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072			
GRAPS FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 05**	520	1	376	520	1	376	520	1 1/8	376	520	1 1/8	376			
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072			
NOTES: *LOC ONLY CHART NOTE: CIRCLING TO RWY 32 NA AT NIGHT.															
#@ NA WHEN CONTROL TOWER CLOSED. # CAT C 700-2, CAT D 1100-3 @ CAT D 1100-3															
CITY AND STATE LAWRENCE, MA		ELEVATION: 148 TDZE: 144 AIRPORT NAME: LAWRENCE MUNI		FACILITY IDENTIFIER: I-LWM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Z OR LOC Z RWY 5, AMDT 1, 10/12/2017				SUP: ILS OR LOC Z RWY 5					
										AMDT: ORIG-A					
										DATED 09/22/2011					



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

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

MISSED APPROACH INSTRUCTIONS, (CONT.):

CLIMBING RIGHT TURN TO 2000 DIRECT HAGET LOM AND HOLD. (ADF REQUIRED).



CITY AND STATE

LAWRENCE, MA

ELEVATION: 148

TDZE: 144

AIRPORT NAME:

LAWRENCE MUNI

FACILITY
IDENTIFIER:
I-LWMPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS Z OR LOC Z RWY 5, AMDT 1, 10/12/2017SUP: ILS OR LOC Z RWY
5

AMDT: ORIG-A

DATED: 09/22/2011

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 700 THEN CLIMBING RIGHT TURN TO 3000 DIRECT WITCH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD S, LT, 021.00 INBOUND. CHART FAS OBST: 356 TOWER 424229N/0710651W CHART 807 TOWER 423914N/0711300W DISTANCE TO THLD FROM 200 HAT: 0.48 NM. WAAS CHANNEL # 53322 REFERENCE PATH ID: W05A CHART CIRCLING ICON. LTP HAE: 13.6 M									
BOS VOR/DME		KENEE (TF) (FB) (RNP 2.00)			323.00 / 15.00			2000											
MHT VOR/DME		TEWKS (TF) (FO) (RNP 2.00)			180.22 / 17.83			2100											
WEP SO (IAF)		TEWKS (NOPT) (TF) (FB) (RNP 1.00)			097.97 / 7.00			2000											
SOSYO (IAF)		TEWKS (NOPT) (TF) (FB) (RNP 1.00)			067.46 / 9.24			2000											
KENEE (IAF)		TEWKS (NOPT) (TF) (FB) (RNP 1.00)			008.37 / 4.22			2000		ADDITIONAL FLIGHT DATA: HOLD S, LT, 021.00 INBOUND. CHART FAS OBST: 356 TOWER 424229N/0710651W CHART 807 TOWER 423914N/0711300W DISTANCE TO THLD FROM 200 HAT: 0.48 NM. WAAS CHANNEL # 53322 REFERENCE PATH ID: W05A CHART CIRCLING ICON. LTP HAE: 13.6 M									
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW TEWKS, LT, 053.08 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 053.12 FAF: WOBMU DIST FAF TO MAP: 5.37 THLD: 5.37 4. MIN. ALT: TEWKS 2000, WOBMU 1900, GRAPS/1.70 NM TO RW05 720* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: WOBMU 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.7 34:1 IS CLEAR 8. MSA FROM: RW05 2600																MAG VAR: 15W		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				
LPV DA	344	3/4	200	344	3/4	200	344	3/4	200	344	3/4	200							
LNAV/VNAV DA	604	1 1/2	460	604	1 1/2	460	604	1 1/2	460	604	1 1/2	460							
LNAV MDA	620	1	476	620	1	476	620	1 3/8	476	620	1 3/8	476							
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072							
NOTES: CHART NOTE: CIRCLING TO RWY 32 NA AT NIGHT. @ CAT D 1100-3 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SOSYO ON V431 WESTBOUND. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 148 TDZE: 144			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:							
LAWRENCE, MA		AIRPORT NAME:			LAWRENCE MUNI		RNAV (GPS) RWY 5, AMDT 1 10/12/2017					AMDT: ORIG-A							
												DATED 10/17/2013							

 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.

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
TEWKS (IF/IAF)	WOBMU (TF) (FB) (RNP 1.00)	053 08 / 4.51	1900
WOBMU (FAF)	GRAPS/1.70 NM TO RW05 (TF) (FB) (RNP 0.30)	053.12 / 3.67	
GRAPS/1.70 NM TO RW05	RW05 (MAP) (TF) (FO) (RNP 0.30)	053.15 / 1.70	
RW05 (MAP)	700 MSL (CA)	053.12	700
700 MSL	WITCH (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BOS VOR/DME AIRWAY RADIALS 240 CW 030.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MHT VOR/DME ON V106 EASTBOUND.

*LNAV ONLY

QUALITY
27

CITY AND STATE LAWRENCE MA	ELEVATION: 148 AIRPORT NAME: LAWRENCE MUNI	TDZE: 144	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 1 10/12/2017	SUP:
					AMDT: ORIG-A
					DATED: 10/17/2013

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 INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KLWM
RUNWAY RW05
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W05A
LTP/FTP LATITUDE 424238.4810N
LTP/FTP LONGITUDE 0710744.8420W
LTP/FTP ELLIPSOIDAL HEIGHT +00136
FPAP LATITUDE 424348.5435N
FPAP LONGITUDE 0710630.1305W
THRESHOLD CROSSING HEIGHT (TCH) 00055.7
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 143.75
LENGTH OFFSET 1232
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 35.0

CRC REMAINDER

45FB4FDC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K6
LTP ORTHOMETRIC HEIGHT +00410
FPAP ORTHOMETRIC HEIGHT +00410

QUALITY
18
CHECKED

CITY AND STATE LAWRENCE, MA	ELEVATION: 148 TDZE: 144 AIRPORT NAME: LAWRENCE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 1 10/12/2017	SUP:
				AMDT: ORIG-A
				DATED: 10/17/2013

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 TEWKES AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 053.08 INBOUND. CHART FAS OBST: 395 TREE 424358N/0710537W DISTANCE TO THLD FROM 418 HAT: 1.14 NM. CHART VDP AT 1.20 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 61022 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 13.5 M								
MHT VOR/DME		WIPNO (TF) (FB) (RNP 2.00)		076.52 / 14.39			2100										
RAYMY		WIPNO (TF) (FB) (RNP 2.00)		179.44 / 4.84			2100										
WITCH		TUNUY (TF) (FO) (RNP 2.00)		352.80 / 11.13			2100										
WIPNO (IAF)		TUNUY (NOPT) (TF) (FB) (RNP 1.00)		163.21 / 9.00			2100										
PSM VOR/DME (IAF)		TUNUY (NOPT) (TF) (FB) (RNP 1.00)		219.61 / 15.13			2100										
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE TUNUY, RT, 233.28 INBOUND, 2100 FT. IN LIEU OF PT (IAF) 3. FAC: 233.21 FAF: _____ DIST FAF TO MAP: 3.68 THLD: 3.68 4. MIN. ALT: TUNUY 2100, WUMUP 1400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1400 GS ALT AT: WUMUP 1400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.10 TCH: 54.0 34:1 IS NOT CLEAR 8. MSA FROM: RW23 2600														MAG VAR: 15W		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		
LPV DA	562	1 3/8	418	562	1 3/8	418	562	1 3/8	418	562	1 3/8	418					
LNAV/VNAV DA	746	2	602	746	2	602	746	2	602	746	2	602					
LNAV MDA	660	1	516	660	1	516	660	1 3/8	516	660	1 3/8	516					
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). @ CAT D 1100-3 CHART NOTE: CIRCLING RWY 32 NA AT NIGHT. CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 148 TDZE: 144		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
LAWRENCE, MA		AIRPORT NAME:		LAWRENCE MUNI		RNAV (GPS) RWY 23, AMDT 1, 10/12/2017				AMDT: ORIG-A							
										DATED 10/17/2013							

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

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

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
WURIV (IAF)	TUNUY (NOPT) (TF) (FB) (RNP 1.00)	303.41 / 9.00	2100
TUNUY (IF/IAF)	WUMUP (TF) (FB) (RNP 1.00)	233.28 / 6.51	1400
WUMUP (FAF)	RW23 (MAP) (TF) (FO) (RNP 0.30)	233.21 / 3.68	
RW23 (MAP)	548 MSL (CA)	233.21	
548 MSL	TEWKS (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MHT VOR/DME ON V141 SOUTHBOUND.

QUALITY
18
CHECKED

CITY AND STATE

LAWRENCE, MA

ELEVATION: 148

TDZE: 144

AIRPORT NAME:

LAWRENCE MUNI

 FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, AMDT 1, 10/12/2017

SUP:

AMDT: ORIG-A

DATED: 10/17/2013

**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	KLWM
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	424317.3145N
LTP/FTP LONGITUDE	0710703.4390W
LTP/FTP ELLIPSOIDAL HEIGHT	+00135
FPAP LATITUDE	424207.2465N
FPAP LONGITUDE	0710818.1300W
THRESHOLD CROSSING HEIGHT (TCH)	00054.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
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>	 64FD4FA1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00408
FPAP ORTHOMETRIC HEIGHT	+00408

QUALITY
18
CHECKED

CITY AND STATE LAWRENCE, MA	ELEVATION: 148 AIRPORT NAME: LAWRENCE MUNI	TDZE: 144 LAWRENCE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1, 10/12/2017	SUP:
					AMDT: ORIG-A
					DATED: 10/17/2013

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: 3.96 NM AFTER VELAN INT/LWM 2.44 DME OR AT LWM 1.52 DME						
MHT VOR/DME		LWM VOR/DME			137.26 / 14.36			2100		CLIMB TO 2000 ON LWM VOR/DME R-233 TO HAGET LOM/INT/LWM 7.34 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 2000 DIRECT LWM VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000.						
										ADDITIONAL FLIGHT DATA: HOLD SW, RT, 053.14 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE LWM VOR/DME, RT, 236.61 INBOUND. CHART FAS OBST: 395 TREE 424358N/0710537W CHART IN PLANVIEW: LWM VOR/DME. CHART CIRCLING ICON. VELAN TO RW23: 3.36/54.						
1. PT <u>L</u> SIDE OF COURSE <u>056.64</u> OUTBOUND <u>1900</u> FT WITHIN <u>10</u> MILES OF <u>LWM VOR/DME</u> (IAF)																
2.																
3. FAC <u>236.64</u> FAF <u>VELAN INT/LWM 2.44 DME</u> DIST FAF TO MAP <u> </u> THLD <u> </u>																
4. MIN. ALT <u>VELAN INT/LWM 2.44 DME 1600, LWM VOR/DME 720</u>																
8. MSA FROM: <u>LWM VOR/DME 090-180 1900, 180-090 2800</u>										MAG VAR: <u>15W</u>					EPOCH YEAR: <u>1980</u>	
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: <u>N A</u>									
CATEGORY =====>	A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-23	660	1	516	660	1	516	660	1 1/2	516	660	1 1/2	516				
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072				
NOTES: CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: STRAIGHT-IN RWY 23 NA AT NIGHT, CIRCLING RWY 32 NA AT NIGHT.																
CITY AND STATE LAWRENCE, MA		ELEVATION: 148 AIRPORT NAME: LAWRENCE MUNI		TDZE: 144		FACILITY IDENTIFIER: LWM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 23, AMDT 12, 10/12/2017				SUP AMDT 11A DATE 10/17/2013				

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.			
TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW34 CLIMBING RIGHT TURN TO 3000 DIRECT SALBE AND HOLD. ADDITIONAL FLIGHT DATA: FAS OBST: 1550 AAO 455100N/0945207W CHART CIRCLING ICON. JEXES TO RW34: 3.00/40. CHART VDP AT 1.53 NM TO RWY34			
BRNRD	OKOMY (TF) (FB) (RNP 2.00)	210.78 / 46.34	3000				
OKOMY (IAF)	SALBE (NOPT) (TF) (FB) (RNP 1.00)	276.37 / 7.88	3000				
TESEE (IAF)	SALBE (NOPT) (TF) (FB) (RNP 1.00)	073.68 / 7.68	3000				
SALBE (IF/IAF)	JEXES (TF) (FB) (RNP 1.00)	343.81 / 6.19	2900				
JEXES (FAF)	RW34 (MAP) (TF) (FO) (RNP 0.30)	343.78 / 4.81					
(SEE FORM 8260-10)							

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)							
2. HOLD S SALBE, RT, 343.81 INBOUND, 3000 FT. IN LIEU OF PT (IAF)							
3. FAC: 343.78 FAF: JEXES DIST FAF TO MAP: 4.81 THLD: 4.81							
4. MIN. ALT: SALBE 3000, JEXES 2900							
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 3600							

MAG VAR: 2E
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	1840	1	508	1840	1	508	1840	1 3/8	508		NA				
CIRCLING	1840	1	508	1840	1	508	1960	1 3/4	628		NA				

NOTES:

CHART NOTE: DME/DME RNP-0.3 NA.

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALEXANDRIA ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND CAT C VISIBILITIES 1/4 SM.

(CONTINUED ON PAGE 2)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY
9
CHECKED

CITY AND STATE	ELEVATION: 1332 TDZE: 1332	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
LONG PRAIRIE, MN	AIRPORT NAME:		RNAV (GPS) RWY 34, AMDT 2	AMDT: 1A
	TODD FIELD		12 OCTOBER 2017	DATED 03/07/2013

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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW34 (MAP)	1732 MSL (CA)	343.78	
1732 MSL	SALBE (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OKOMY ON V2 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRNRD AIRWAY RADIALS 156 CW 171.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TESEE ON V171 SOUTHEAST BOUND.
CHART NOTE: VDP NA WHEN USING ALEXANDRIA ALTIMETER SETTING.

QUALITY
9
CHECKED

CITY AND STATE
LONG PRAIRIE, MN

ELEVATION: 1332 TDZE: 1332
AIRPORT NAME:
TODD FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 34, AMDT 2
12 OCTOBER 2017

SUP:
AMDT: 1A
DATED: 03/07/2013

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: RW04 CLIMB TO 4300 THEN CLIMBING RIGHT TURN TO 7000 DIRECT JIBES AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 3669 TREE 454159N/1084721W CHART FAS OBST: 3629 TREE 454137N/1084710W DISTANCE TO THLD FROM 295 HAT: 0.82 NM. CHART VDP AT 1.44 NM TO RW04* *LNAV ONLY. WAAS CHANNEL # 70422 REFERENCE PATH ID: W04A LTP HAE: 1050.2 M											
REEPO				FAVUP (TF) (FB) (RNP 2.00)				106.12 / 19.72				7200													
FAVUP (IAF)				JIBES (NOPT) (TF) (FB) (RNP 1.00)				106.01 / 5.00				7000													
HAKDI (IAF)				JIBES (NOPT) (TF) (FB) (RNP 1.00)				326.52 / 7.56				7000													
JIBES (IF/IAF)				NERKE (TF) (FB) (RNP 1.00)				036.09 / 6.22				6000													
NERKE (FAF)				CAMUD/2.20 NM TO RW04 (TF) (FB) (RNP 0.30)				036.15 / 5.58																	
(SEE FORM 8260-10)																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW JIBES, RT, 036.09 INBOUND, 7000 FT. IN LIEU OF PT (IAF) 3. FAC: 036.15 FAF: NERKE DIST FAF TO MAP: 7.78 THLD: 7.78 4. MIN. ALT: JIBES 7000, NERKE 6000, CAMUD/2.20 NM TO RW04 4220* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 6000 GS ALT AT: NERKE 6000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 33.3 34:1 IS NOT CLEAR 8. MSA FROM: RW04 8600																MAG VAR: 14E 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	3783	1	295	3783	1	295	3783	1	295	3783	1	295													
LNAV/VNAV DA	3981	1 3/4	493	3981	1 3/4	493	3981	1 3/4	493	3981	1 3/4	493													
LNAV MDA	3980	1	492	3980	1	492	3980	1 3/8	492	3980	1 3/8	492													
CIRCLING	4200	1	683	4200	1	683	4200	2	683	4220	2 1/4	703													
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BILLINGS ALTIMETER SETTING. CHART NOTE: BARO-VNAV AND VPD NA WHEN USING BILLINGS ALTIMETER SETTING. (CONTINUED ON PAGE 2)																									
CITY AND STATE LAUREL, MT				ELEVATION: 3517 TDZE: 3488 AIRPORT NAME: LAUREL MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 1B 12 OCTOBER 2017				SUP: AMDT: 1A DATED 04/28/2016											



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

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are 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
CAMUD/2.20 NM TO RW04	RW04 (MAP) (TF) (FO) (RNP 0.30)	036.15 / 2.20	
RW04 (MAP)	4300 MSL (CA)	036.15	4300
4300 MSL	JIBES (DF) (FO) (RNP 1.00)		7000

NOTES, (CONT.):

CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: CIRCLING NA TO RWYS 9 AND 12.
 CHART NOTE: CIRCLING RWY 14, 32 NA AT NIGHT.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT REEPO ON V2-86 WESTBOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HAKDI ON V465 SOUTHBOUND.



CITY AND STATE LAUREL, MT	ELEVATION: 3517	TDZE: 3488	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 1B 12 OCTOBER 2017	SUP:
	AIRPORT NAME:				AMDT: 1A
	LAUREL MUNI				DATED: 04/28/2016

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	6S8
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	454205.8470N
LTP/FTP LONGITUDE	1084550.2935W
LTP/FTP ELLIPSOIDAL HEIGHT	+10502
FPAP LATITUDE	454302.8000N
FPAP LONGITUDE	1084412.5200W
THRESHOLD CROSSING HEIGHT (TCH)	00033.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 C750EA02

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10631
FPAP ORTHOMETRIC HEIGHT	+10631

QUALITY
20
CHECKED

CITY AND STATE LAUREL, MT	ELEVATION: 3517 AIRPORT NAME: LAUREL MUNI	TDZE: 3488 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 1B 12 OCTOBER 2017	SUP:
				AMDT: 1A
				DATED: 04/28/2016

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW22 CLIMB TO 7000 DIRECT JIBES AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 036.09 INBOUND. CHART FAS OBST: 3689 TREE 454259N/1084538W DISTANCE TO THLD FROM 295 HAT: 0.79 NM. CHART VDP AT 1.57 NM TO RW22* *LNAV ONLY. WAAS CHANNEL # 86822 REFERENCE PATH ID: W22A LTP HAE: 1040 M						
ARDMO		ZEKLO (TF) (FB) (RNP 2.00)		319.63 / 10.73				7000								
SHELA		LOPBI (TF) (FB) (RNP 2.00)		117.04 / 12.10				7000								
BIL VORTAC		INAVE (TF) (FO) (RNP 2.00)		044.59 / 8.34				7000								
LOPBI (IAF)		INAVE (NOPT) (TF) (FB) (RNP 1.00)		146.35 / 7.00				7000								
NIBBE (IAF)		INAVE (NOPT) (TF) (FB) (RNP 1.00)		244.78 / 16.99				7000								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE INAVE, RT, 216.42 INBOUND, 7000 FT. IN LIEU OF PT (IAF) 3. FAC: 216.34 FAF: FANAV DIST FAF TO MAP: 5.66 THLD: 5.66 4. MIN. ALT: INAVE 7000, SEPVE 6500, FANAV 5300 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 5300 GS ALT AT: FANAV 5300 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 43.6 34:1 IS NOT CLEAR 8. MSA FROM: RW22 8600																
										MAG VAR: 14E			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	3767	1	295	3767	1	295	3767	1	295	3767	1	295				
LNAV/VNAV DA	3965	1 5/8	493	3965	1 5/8	493	3965	1 5/8	493	3965	1 5/8	493				
LNAV MDA	4000	1	528	4000	1	528	4000	1 5/8	528	4000	1 5/8	528				
CIRCLING	4200	1	683	4200	1	683	4200	2	683	4220	2 1/4	703				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 53C (128F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BILLINGS ALTIMETER SETTING. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BILLINGS ALTIMETER SETTING. (CONTINUED ON PAGE 2)																
CITY AND STATE LAUREL, MT		ELEVATION: 3517 TDZE: 3472 AIRPORT NAME: LAUREL MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1B 12 OCTOBER 2017				SUP: AMDT: 1A DATED 04/28/2016				



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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ZEKLO (IAF)	INAVE (NOPT) (TF) (FB) (RNP 1.00)	286.49 / 7.00	7000
INAVE (IF/IAF)	SEPVE (TF) (FB) (RNP 1.00)	216.42 / 6.00	6500
SEPVE	FANAV (TF) (FB) (RNP 1.00)	216.40 / 4.34	5300
FANAV (FAF)	RW22 (MAP) (TF) (FO) (RNP 0.30)	216.34 / 5.66	
RW22 (MAP)	3767 MSL (CA)	216.34	
3767 MSL	JIBES (DF) (FO) (RNP 1.00)		7000

NOTES, (CONT.):

CHART NOTE: CIRCLING NA TO RWYS 9 AND 12.

CHART NOTE: CIRCLING RWY 14, 32 NA AT NIGHT.

CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BIL VORTAC AIRWAY RADIALS 333 CW 117

QUALITY
20
CHECKED

CITY AND STATE
LAUREL, MT

ELEVATION: 3517 TDZE: 3472
 AIRPORT NAME:
 LAUREL MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 22, AMDT 1B
 12 OCTOBER 2017

SUP:
 AMDT: 1A
 DATED: 04/28/2016

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	6S8
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	454238.6755N
LTP/FTP LONGITUDE	1084453.9265W
LTP/FTP ELLIPSOIDAL HEIGHT	+10400
FPAP LATITUDE	454141.7300N
FPAP LONGITUDE	1084631.6900W
THRESHOLD CROSSING HEIGHT (TCH)	00043.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

9BD4CF37

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10529
FPAP ORTHOMETRIC HEIGHT	+10529

QUALITY
20
CHECKED

CITY AND STATE

LAUREL, MT

ELEVATION: 3517

TDZE: 3472

AIRPORT NAME:

LAUREL MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 22, AMDT 1B

12 OCTOBER 2017

SUP:

AMDT:

1A

DATED:

04/28/2016

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are 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 1A 12 OCTOBER 2017						SUP: AMDT: 1 DATED 08/17/2017			



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.	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



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 1A
12 OCTOBER 2017

SUP:
AMDT: 1
DATED: 08/17/2017

**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)	0.0
 <u>CRC REMAINDER</u>	 CD87D83C

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY
20
CHECKED

CITY AND STATE GARRISON, ND	ELEVATION: 1937 AIRPORT NAME: GARRISON MUNI	TDZE: 1937 GARRISON MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 1A 12 OCTOBER 2017	SUP:
					AMDT: 1
					DATED: 08/17/2017

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 CLIMB TO 3900 DIRECT OLTIQ AND HOLD. 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										
OGZEV (IF/IAF)		EYMOV (TF) (FB) (RNP 1.00)			311.44 / 5.00				3600												
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																
RW31 (MAP)		2337 MSL (CA)			311.38				3900												
2337 MSL		OLTIQ (DF) (FO) (RNP 1.00)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 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: _____																		MAG VAR: 9E		EPOCH YEAR: 2000	
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT											ALTERNATE: N A		☒ X								
CATEGORY ==>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
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 1A 12 OCTOBER 2017				SUP:					
																AMDT: 1					
																DATED 08/17/2017					



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 221/30 041/15 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
20
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 1A 12 OCTOBER 2017	SUP:
				AMDT: 1
				DATED: 08/17/2017

**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	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)	0.0
 <u>CRC REMAINDER</u>	 E4246573

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY
20
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 1A 12 OCTOBER 2017	SUP:
				AMDT: 1
				DATED: 08/17/2017

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: RW15 LNAV: RW15 CLIMB TO 3000 DIRECT HIMEL AND ON TRACK 214.31 TO CTW VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 093.00 INBOUND. CHART FAS OBST: 1330 TOWER 402926N/0812547W FAS OBST: 1319 TOWER 403046N/0812725W WAAS CHANNEL # 42725 REFERENCE PATH ID: W15A CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. LTP HAE: 239.1 M					
ZETMU (IAF)			EPIBY (NOPT) (TF) (FB) (RNP 1.00)			096.73 / 7.44			3000								
CEPSI (IAF)			EPIBY (NOPT) (TF) (FB) (RNP 1.00)			207.22 / 4.93			3000								
EPIBY (IF/IAF)			NUWIT (TF) (FB) (RNP 1.00)			147.19 / 6.00			2600								
NUWIT (FAF)			RW15 (MAP) (TF) (FO) (RNP 0.30)			147.24 / 5.23											
RW15 (MAP)			1294 MSL (CA)			147.24											
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW EPIBY, RT, 147.19 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 147.24 FAF: NUWIT DIST FAF TO MAP: 5.23 THLD: 5.23 4. MIN. ALT: EPIBY 3000, NUWIT 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: RW15 3400																	
												MAG VAR: 8W			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		
LP MDA	1580	1	686	1580	1	686	1580	2	686		NA						
LNAV MDA	1640	1	746	1640	1 1/4	746	1640	2	746		NA						
CIRCLING	1640	1	746	1640	1 1/4	746	1640	2 1/4	746		NA						
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING NA TO RWYS 12 AND 30. CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																	
CITY AND STATE				ELEVATION: 894 TDZE: 894				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) RWY 14	
NEW PHILADELPHIA, OH				AIRPORT NAME:								RNAV (GPS) RWY 15, ORIG-C				AMDT: ORIG-B	
				HARRY CLEVER FIELD								12 OCTOBER 2017				DATED 12/11/2014	



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
1294 MSL	HIMEL (DF) (FB) (RNP 1.00)		
HIMEL	CTW VOR/DME (TF) (FO) (RNP 1.00)	214.31 / 12.42	3000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AKRON ALTIMETER SETTING AND INCREASE ALL MDA 120 FEET, INCREASE LP CAT B/C VISIBILITY 1/2 MILE, LNAV CAT C VISIBILITY 1/2 MILE, CIRCLING CAT A/C VISIBILITY 1/4 MILE

CITY AND STATE
NEW PHILADELPHIA, OH

ELEVATION: 894 TDZE: 894
AIRPORT NAME:
HARRY CLEVER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 15, ORIG-C
12 OCTOBER 2017

SUP: **RNAV (GPS) RWY 14**
AMDT: **ORIG-B**
DATED: **12/11/2014**

QUALITY
4
CHECKED

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPHD
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	402827.5800N
LTP/FTP LONGITUDE	0812524.9760W
LTP/FTP ELLIPSOIDAL HEIGHT	+02391
FPAP LATITUDE	402719.9900N
FPAP LONGITUDE	0812408.8500W
THRESHOLD CROSSING HEIGHT (TCH)	00000.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	00.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

81FD2AA2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02725
FPAP ORTHOMETRIC HEIGHT	+02725

QUALITY
4
CHECKED

CITY AND STATE

NEW PHILADELPHIA, OH

ELEVATION: 894

TDZE: 894

AIRPORT NAME:

HARRY CLEVER FIELD

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 15, ORIG-C

12 OCTOBER 2017

SUP: RNAV (GPS) RWY 14

AMDT: ORIG-B

DATED: 12/11/2014

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 HATh, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE		MAP: 4.93 NM AFTER BARTE/BSV 11.00 DME/RADAR OR AT HAVOL/15.93 DME FIX							
BSV VOR/DME (IF)			BARTE/11.00 DME/RADAR (NOPT)			181.99 / 11.00				3000		CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 3000 DIRECT BSV VOR/DME AND HOLD.							
										ADDITIONAL FLIGHT DATA: HOLD N, RT, 181.99 INBOUND. FAS OBST: 1459 AAO 403208N/0812323W FAC CROSSES MIDPOINT OF RWY 15-33. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																			
2. HOLD N BARTE, RT, 181.99 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																			
3. FAC 181.99 FAF BARTE/11.00 DME/RADAR										DIST FAF TO MAP 4.93 THLD									
4. MIN. ALT BARTE 3000																			
8. MSA FROM: BSV VOR/DME 270-090 2800, 090-270 3100										MAG VAR: 4W EPOCH YEAR:1965									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		@							
CATEGORY =====>		A			B			C			D			E					
	MDA	VIS	HATh/HAA	MDA	VIS	HATh/HAA	MDA	VIS	HATh/HAA	MDA	VIS	HATh/HAA	MDA	VIS	HATh/HAA				
CIRCLING	1720	1 1/4	826	1720	1 1/4	826	1720	2 1/2	826		NA								
NOTES:																			
CHART NOTE: CIRCLING NA TO RWYS 12 AND 30.										@ NA WHEN LOCAL WEATHER NOT AVAILABLE.									
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AKRON ALTIMETER SETTING AND INCREASE ALL MDA 120 FEET, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.										@ CAT A, B 900-2, CAT C 900-2 1/2									
CHART NOTE: RWY 15, 33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																			
CHART NOTE: PROCEDURE NA AT NIGHT.																			
CITY AND STATE NEW PHILADELPHIA, OH				ELEVATION: 894 AIRPORT NAME: HARRY CLEVER FIELD			TDZE:		FACILITY IDENTIFIER: BSV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 2A 12 OCTOBER 2017					SUP AMDT 2 DATE 10/20/2011			



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: RIVIT LP: RIVIT CLIMB TO 5000 DIRECT COPDA AND ON TRACK 037.37 TO GANEC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 220.07 INBOUND. CHART FAS OBST: 1619 TREE 401718N/0781936W CHART FAS OBST: 1610 TREE 401650N/0781927W 2159 AAO 401042N/0782154W CHART VDP AT 0.62 NM TO RIVIT. WAAS CHANNEL # 82030 REFERENCE PATH ID: W03B PHILL TO RW03: 3.00/43. FAC CROSSES RWY CENTERLINE 3000' FROM THLD CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 15.00 DEGREES. FICTITIOUS THRESHOLD POINT (CFPJS) DO NOT CHART LTP HAE: 425.2 M								
CRYSS (IF/IAF)		PHILL (TF) (FB) (RNP 1.00)			040.88 / 6.00				3600										
PHILL (FAF)		RIVIT (MAP) (TF) (FO) (RNP 0.30)			040.93 / 5.97														
RIVIT (MAP)		1860 MSL (CA)			040.93														
1860 MSL		COPDA (DF) (FB) (RNP 1.00)							5000										
COPDA		GANEC (TF) (FO) (RNP 1.00)			037.37 / 11.14														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW CRYSS, RT, 040.88 INBOUND, 4900 FT. IN LIEU OF PT (IAF) 3. FAC: 040.93 FAF: PHILL DIST FAF TO MAP: 5.97 THLD: 6.45 4. MIN. ALT: CRYSS 4900, PHILL 3600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: _____																MAG VAR: 10W		EPOCH YEAR: 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				
LP MDA	1860	1	357	1860	1	357	1860	1	357	1860	1	357							
LNAV MDA	1880	1	377	1880	1	377	1880	1	377	1880	1	377							
CIRCLING	2020	1	517	2060	1	557	2060	1 1/2	557	2620	3	1117							
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BEDFORD COUNTY ALTIMETER SETTING AND INCREASE ALL MDA 100 FT, INCREASE LNAV AND LP CAT C, D VISIBILITIES 3/8 MILE AND INCREASE CIRCLING CAT A,B,C VISIBILITIES 1/4 MILE. (CONTINUED ON PAGE 2)																			
CITY AND STATE ALTOONA, PA				ELEVATION: 1503 TDZE: 1503 AIRPORT NAME: ALTOONA-BLAIR COUNTY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 3, AMDT 1A 12 OCTOBER 2017				SUP: AMDT: 1 DATED 05/02/2013					

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

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NOTES, (CONT.):

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

CHART NOTE: CIRCLING NA TO RWYS 12 AND 30.

CHART NOTE: VDP NA WHEN USING BEDFORD COUNTY ALTIMETER SETTING

TAA

	FROM	TO	ALT
1.	311/30 CW 131/30 (NOPT)	311/10 CW 131/10	5400
2.	311/10 CW 131/10	CRYSS (IF/IAF) (FB)	4900
3.	131/30 CW 311/30	131/10 CW 311/10	5400
4.	131/10 CW 311/10	CRYSS (IF/IAF) (FO)	4900

QUALITY
14
CHECKED

CITY AND STATE ALTOONA, PA	ELEVATION: 1503 TDZE: 1503 AIRPORT NAME: ALTOONA-BLAIR COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 3, AMDT 1A 12 OCTOBER 2017	SUP:
				AMDT: 1
				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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAOO
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03B
LTP/FTP LATITUDE	401714.4450N
LTP/FTP LONGITUDE	0781914.6720W
LTP/FTP ELLIPSOIDAL HEIGHT	+04252
FPAP LATITUDE	401831.9495N
FPAP LONGITUDE	0781814.6695W
THRESHOLD CROSSING HEIGHT (TCH)	00043.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

79A0AD86

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04582
FPAP ORTHOMETRIC HEIGHT	+04582

QUALITY
14
CHECKED

CITY AND STATE

ALTOONA, PA

ELEVATION: 1503

TDZE: 1503

AIRPORT NAME:

ALTOONA-BLAIR COUNTY

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 3, AMDT 1A

12 OCTOBER 2017

SUP:

AMDT: 1

DATED: 05/02/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA						
IDUSE (IF/IAF)		WOXUB (TF) (FB) (RNP 1.00)		025.94 / 6.00				3600		CLIMB TO 5000 DIRECT TOGJU AND ON TRACK 042.05 TO GANEC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.						
WOXUB (FAF)		RW03 (MAP) (TF) (FO) (RNP 0.30)		025.96 / 6.41												
RW03 (MAP)		1828 MSL (CA)		025.96						ADDITIONAL FLIGHT DATA: HOLD NE, RT, 220.07 INBOUND. DISTANCE TO THLD FROM 325 HAT: 0.84 NM. WAAS CHANNEL # 82529 REFERENCE PATH ID: W03A LTP HAE: 425.2 M						
1828 MSL		TOGJU (DF) (FB) (RNP 1.00)														
TOGJU		GANEC (TF) (FO) (RNP 1.00)		042.05 / 10.8				5000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD SW IDUSE, RT, 025.94 INBOUND, 4500 FT. IN LIEU OF PT (IAF)																
3. FAC: 025.96 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																
4. MIN. ALT: IDUSE 4500, WOXUB 3600																
5. DIST TO THLD FROM OM: 6.41 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 3600 GS ALT AT: WOXUB 3600 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR																
8. MSA FROM: _____																
MAG VAR: 10W EPOCH YEAR: 2005																
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		1828	1	325	1828	1	325	1828	1	325	1828	1	325			
NOTES: CHART NOTE: RWY 3 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}). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BEDFORD COUNTY ALTIMETER SETTING AND INCREASE ALL DA 84 FT, AND INCREASE ALL VISIBILITIES 3/8 MILE.																
CITY AND STATE ALTOONA, PA		ELEVATION: 1503 TDZE: 1503 AIRPORT NAME: ALTOONA-BLAIR COUNTY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 3, ORIG-B 12 OCTOBER 2017				SUP: AMDT: ORIG-A DATED 05/02/2013				



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.	296/30 CW 116/30 (NOPT)	296/10 CW 116/10	5400
2.	296/10 CW 116/10	IDUSE (IF/IAF) (FB)	4500
3.	116/30 CW 296/30	116/10 CW 296/10	5400
4.	116/10 CW 296/10	IDUSE (IF/IAF) (FO)	4500

QUALITY
14
CHECKED

CITY AND STATE ALTOONA, PA	ELEVATION: 1503	TDZE: 1503	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 3, ORIG-B 12 OCTOBER 2017	SUP:
	AIRPORT NAME: ALTOONA-BLAIR COUNTY				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	KAOO
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	401719.3940N
LTP/FTP LONGITUDE	0781923.2615W
LTP/FTP ELLIPSOIDAL HEIGHT	+04252
FPAP LATITUDE	401845.1100N
FPAP LONGITUDE	0781851.1900W
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	1088
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 539DB453

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04582
FPAP ORTHOMETRIC HEIGHT	+04582

QUALITY
14
CHECKED

CITY AND STATE ALTOONA, PA	ELEVATION: 1503 TDZE: 1503 AIRPORT NAME: ALTOONA-BLAIR COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 3, ORIG-B 12 OCTOBER 2017	SUP:
				AMDT: ORIG-A
				DATED: 05/02/2013

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH								
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LP: RW17 LNAV: RW17 CLIMB TO 3900 DIRECT GEPGE AND ON TRACK 194.18 TO KACGE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3900. ADDITIONAL FLIGHT DATA: HOLD S, RT, 009.81 INBOUND. CHART FAS OBST: 862 TREE 405029N/0765212W FAS OBST: 1000 AAO 405258N/0765303W 980 AAO 405254N/0765302W 1220 AAO 405420N/0765605W WAAS CHANNEL # 97639 REFERENCE PATH ID: W17A CHART CIRCLING ICON. AWYIR TO RW17: 3.00/40. LTP HAE: 105.5 M								
HUTOD (IAF)		EXLAV (TF) (FB) (RNP 1.00)			259.83 / 6.80			4300										
JASOG (IAF)		EXLAV (TF) (FB) (RNP 1.00)			079.65 / 6.80			4300										
EXLAV (IF/IAF)		AWYIR (TF) (FB) (RNP 1.00)			169.74 / 6.61			2200										
AWYIR (FAF)		WESIP/3.40 NM TO RW17 (TF) (FB) (RNP 0.30)			169.78 / 1.95													
WESIP/3.40 NM TO RW17		RW17 (MAP) (TF) (FO) (RNP 0.30)			169.78 / 3.40													
(SEE FORM 8260-10)																		
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N EXLAV, RT, 169.74 INBOUND, 4300 FT. IN LIEU OF PT (IAF) 3. FAC: 169.78 FAF: AWYIR DIST FAF TO MAP: 5.35 THLD: 5.35 4. MIN. ALT: EXLAV 4300, AWYIR 2200, WESIP/3.40 NM TO RW17 1580 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: 11W EPOCH YEAR: 2000								
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			
LP MDA	1200	1	744	1200	1 1/4	744	1200	2	744	1200	2	744						
LNAV MDA	1260	1	804	1260	1 1/4	804	1260	2 1/2	804	1260	2 1/2	804						
CIRCLING	1400	1 1/4	936	1400	1 1/4	936	1420	3	956	1600	3	1136						
NOTES: CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. @ CAT A, B 1000-2, CAT C 1000-3, CAT D 1200-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT.																		
CITY AND STATE		ELEVATION: 464 TDZE: 456			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:					
SELINGROVE, PA		AIRPORT NAME: PENN VALLEY						RNAV (GPS) RWY 17, AMDT 1					AMDT: ORIG-B					
								12 OCTOBER 2017					DATED 06/25/2015					



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

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

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW17 (MAP)	864 MSL (CA)	169.78	
864 MSL	GEPGE (DF) (FB) (RNP 1.00)		
GEPGE	KACGE (TF) (FO) (RNP 1.00)	194.18 / 8.22	3900

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	080/30 CW 260/30 (NOPT)	080/5 CW 260/5	4900
	080/5 CW 260/5	EXLAV (IF/IAF) (FB)	4300
2.	260/30 CW 350/30	HUTOD (IAF) (FB)	4300
3.	350/30 CW 080/30	JASOG (IAF) (FB)	4300

QUALITY
5
CHECKED

CITY AND STATE SELINGROVE, PA	ELEVATION: 464 AIRPORT NAME: PENN VALLEY	TDZE: 456 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1 12 OCTOBER 2017	SUP:
				AMDT: ORIG-B
				DATED: 06/25/2015

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

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CITY AND STATE SELINGROVE, PA	ELEVATION: 464	TDZE: 456	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1 12 OCTOBER 2017	SUP:
	AIRPORT NAME: PENN VALLEY				AMDT: ORIG-B
					DATED: 06/25/2015

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSEG
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	404934.8025N
LTP/FTP LONGITUDE	0765200.3245W
LTP/FTP ELLIPSOIDAL HEIGHT	+01055
FPAP LATITUDE	404811.6785N
FPAP LONGITUDE	0765117.8955W
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	1416
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 1ED0EB3B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01390
FPAP ORTHOMETRIC HEIGHT	+01390

QUALITY
5
CHECKED

CITY AND STATE SELINGROVE, PA	ELEVATION: 464 AIRPORT NAME: PENN VALLEY	TDZE: 456 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1 12 OCTOBER 2017	SUP:
				AMDT: ORIG-B
				DATED: 06/25/2015

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LP: OJREY LNAV: OJREY							
KACGE (IF/IAF)				WUNOK (TF) (FB) (RNP 1.00)			009.81 / 5.50				2300		CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3900 DIRECT KACGE AND HOLD.							
WUNOK (FAF)				OJREY (MAP) (TF) (FO) (RNP 0.30)			009.81 / 4.41													
OJREY (MAP)				2000 MSL (CA)			009.81				2000									
2000 MSL				KACGE (DF) (FO) (RNP 1.00)							3900		ADDITIONAL FLIGHT DATA: FAS OBST: 940 AAO 404501N/0765201W FAS OBST: 1720 AAO 404435N/0764955W WAAS CHANNEL # 49139 REFERENCE PATH ID: W35A CHART CIRCLING ICON. WUNOK TO RW35: 3.50/45. FICTITIOUS THRESHOLD POINT (CFCHC) DO NOT CHART. FAC CROSSES RWY C/L EXTENDED 3001 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 20 DEGREES. LTP HAE: 101.4 M							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 11W EPOCH YEAR: 2000						
2. HOLD S KACGE, RT, 009.81 INBOUND, 3900 FT. IN LIEU OF PT (IAF)																				
3. FAC: 009.81 FAF: WUNOK DIST FAF TO MAP: 4.41 THLD: 4.87																				
4. MIN. ALT: KACGE 3900, WUNOK 2300																				
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																				
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																				
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR																				
8. MSA FROM: _____																				
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					
LP MDA	1200	1	755	1200	1 1/4	755	1200	2	755	1200	2	755								
LNAV MDA	1840	1 1/4	1395	1840	1 1/2	1395	1840	3	1395	1840	3	1395								
CIRCLING	1840	1 1/4	1376	1840	1 1/2	1376	1840	3	1376	1840	3	1376								
NOTES: CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. @ CAT A, B 1400-2, CAT C, D 1400-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT.																				
CITY AND STATE SELINGROVE, PA				ELEVATION: 464 TDZE: 445 AIRPORT NAME: PENN VALLEY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 12 OCTOBER 2017					SUP: AMDT: NONE DATED					

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

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

TAA

	FROM	TO	ALT
1.	280/30 CW 100/30 (NOPT) 280/5 CW 100/5	280/5 CW 100/5 KACGE (IF/IAF) (FB)	4400 3900
2.	100/30 CW 280/30 100/5 CW 280/5	100/5 CW 280/5 KACGE (IF/IAF) (FO)	4500 3900

QUALITY
5
CHECKED

CITY AND STATE SELINGROVE, PA	ELEVATION: 464 AIRPORT NAME: PENN VALLEY	TDZE: 445 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 12 OCTOBER 2017	SUP:
				AMDT: NONE
				DATED:

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSEG
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	404857.0380N
LTP/FTP LONGITUDE	0765127.6030W
LTP/FTP ELLIPSOIDAL HEIGHT	+01014
FPAP LATITUDE	405026.1745N
FPAP LONGITUDE	0765130.0440W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

D5DDABA2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01350
FPAP ORTHOMETRIC HEIGHT	+01350

QUALITY
5
CHECKED

CITY AND STATE

SELINGROVE, PA

ELEVATION: 464

TDZE: 445

AIRPORT NAME:

PENN VALLEY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 35, ORIG

12 OCTOBER 2017

SUP:

AMDT:

NONE

DATED:

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: 5.51 NM AFTER MURRY LOM CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 2100 DIRECT CAE VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 2200 DIRECT MURRY LOM AND HOLD (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SE, LT, 335.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E MURRY LOM, RT, 291.66 INBOUND. CHART FAS OBST: 559 TREE 335751N/0811142W CHART: 670 TOWER 335718N/0811448W CHART PLANVIEW NOTE: ADF REQUIRED.						
CAE VORTAC		MURRY LOM			306.70 / 11.58			2200								
STEET INT		MURRY LOM			042.79 / 11.25			2200								
WIDER INT		MURRY LOM			179.71 / 11.49			2200								
LEDAS INT (IAF)		MURRY LOM (NOPT)			111.66 / 14.68			2100								
1. PT <u>L</u> SIDE OF COURSE <u>291.66</u> OUTBOUND <u>2200</u> FT WITHIN <u>10</u> MILES OF <u>MURRY LOM</u> (IAF) 2. _____ 3. FAC: <u>111.66</u> FAF: <u>MURRY LOM</u> DIST FAF TO MAP: <u>5.51</u> THLD: <u>5.51</u> 4. MIN. ALT: <u>MURRY LOM 2100</u> 5. DIST TO THLD FROM OM: <u>5.51</u> MM: <u>0.49</u> IM: <u>980</u> 150 HAT: <u>-</u> 100 HAT: <u>979</u> GS ANT: <u>1000</u> 6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>-</u> OM: <u>2068</u> MM: <u>441</u> IM: <u>335</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>59.0</u> 8. MSA FROM: <u>CA LOM 3100</u>										MAG VAR: 7W EPOCH YEAR: 2020						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #			LOC: STANDARD				
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 11	436	1800	200	436	1800	200	436	1800	200	436	1800	200				
S-LOC 11	820	2400	584	820	2400	584	820	5000	584	820	6000	584				
CIRCLING	820	1	584	820	1	584	840	1 3/4	604	880	2	644				
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT A, B, C, D, RA 128, RVR 1200, HAT 100, DA 336 MSL. # CAT C, D 700-2 CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT III CAT A, B, C, D, RVR 600.																
CITY AND STATE		ELEVATION: 236 TDZE: 236			FACILITY IDENTIFIER: I-CAE		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
COLUMBIA, SC		AIRPORT NAME:			COLUMBIA METROPOLITAN		ILS OR LOC RWY 11, AMDT 15A; ILS RWY 11 (CAT II), ILS RWY 11 (CAT III)					AMDT: 15				
							12 OCTOBER 2017					DATED 08/27/2009				



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: 3.90 NM AFTER VYKUS OM/INT CLIMB TO 2200 DIRECT MURRY LOM AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2100 DIRECT CAE VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 109.46 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE CAE VORTAC, LT, 335.00 INBOUND. CHART FAS OBST: 458 WATER TANK 335522N/0810429W. CHART IN PLANVIEW: CAE VORTAC.					
CAE VORTAC			VYKUS OM/INT (TF)			016.53 / 3.99			2100								
HOPKI INT/CAE VORTAC 9.68 DME (IAF)			VYKUS OM/INT (NOPT)			254.00 / 2.40 & 291.67 / 6.10 (I-VYK)			1600								
1. PT <u>R</u> SIDE OF COURSE <u>111.67</u> OUTBOUND <u>2100</u> FT WITHIN <u>10</u> MILES OF <u>VYKUS OM</u> (IAF) 2. _____ 3. FAC: <u>291.67</u> FAF: <u>VYKUS OM/INT</u> DIST FAF TO MAP: <u>3.90</u> THLD: <u>3.90</u> 4. MIN. ALT: <u>VYKUS OM/INT 1600</u> 5. DIST TO THLD FROM OM: <u>3.90</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1000</u> 6. MIN GS INCPT: <u>1600</u> GS ALT AT: <u>-</u> OM: <u>1539</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>57.0</u> 8. MSA FROM: <u>CAE VOR/DME 3100</u>										MAG VAR: 7W			EPOCH YEAR: 2020				
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD						
CATEGORY =====>		A		B		C		D		E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
S-ILS 29*	427	2400	200	427	2400	200	427	2400	200	427	2400	200					
S-LOC 29	700	2400	473	700	2400	473	700	4000	473	700	5000	473					
CIRCLING	760	1	524	760	1	524	840	1 3/4	604	880	2	644					
NOTES: CHART NOTE: ADF REQUIRED.																	
# CAT C, D 700-2																	
CHART NOTE: *RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.																	
CITY AND STATE COLUMBIA, SC		ELEVATION: 236 AIRPORT NAME: COLUMBIA METROPOLITAN		TDZE: 227		FACILITY IDENTIFIER: I-VYK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 29, AMDT 3I 12 OCTOBER 2017				SUP:					
												AMDT: 3H					
												DATED 09/14/2017					



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: 5.49 NM AFTER CAE VORTAC OR AT CAE 5.49 DME							
ADCOM INT (IF/IAF)			CAE VORTAC (NOPT)			320.20 / 10.00				2000		CLIMBING LEFT TURN TO 2000 DIRECT CAE VORTAC AND HOLD.							
										ADDITIONAL FLIGHT DATA: HOLD SE, LT, 329.00 INBOUND. CHART FAS OBST: 563 TOWER 335234N/0810427W FAC CROSSES MIDPOINT OF RWY 5/23.									
1. PT <u>R</u> SIDE OF COURSE <u>149.00</u> OUTBOUND <u>2100</u> FT WITHIN <u>10</u> MILES OF <u>CAE VORTAC</u> (IAF)																			
2.																			
3. FAC <u>329.00</u> FAF <u>CAE VORTAC</u> DIST FAF TO MAP <u>5.49</u> THLD																			
4. MIN. ALT <u>CAE VORTAC 2000</u>																			
8. MSA FROM: <u>CAE VORTAC 3100</u>										MAG VAR: 2W EPOCH YEAR: 1965									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD							
CATEGORY =====>		A			B			C			D			E					
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA			
CIRCLING		820	1	584	820	1	584	840	1 3/4	604	880	2	644						
NOTES:																			
QUALITY 20 CHECKED																			
CITY AND STATE COLUMBIA, SC		ELEVATION: 236 AIRPORT NAME: COLUMBIA METROPOLITAN			TDZE:		FACILITY IDENTIFIER: CAE		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 16A 12 OCTOBER 2017					SUP AMDT 16 DATE 08/27/2009					

**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>
TRICITIES	TWO	TRI2.TRI	ONE	01/13/2011	12 OCTOBER 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☒	☐	☐	☐	☐

DP ROUTE DESCRIPTION:

TAKEOFF RWY 5: CLIMBING LEFT TURN HEADING 049.56 TO INTERCEPT GZG VOR/DME R-219 NORTHEAST BOUND TO 4200 BEFORE PROCEEDING ON COURSE, OR FOR CLIMB IN VISUAL CONDITIONS: CROSS TRI-CITIES AT OR ABOVE 2500 THEN CLIMB TO 3600 VIA GZG VOR/DME R-219 NORTHEAST BOUND BEFORE PROCEEDING ON COURSE.

TAKEOFF RWY 9: CLIMB HEADING 096.04 TO INTERCEPT GZG VOR/DME R-200 NORTHBOUND TO 5900 BEFORE PROCEEDING ON COURSE.

TAKEOFF RWY 23: CLIMB HEADING 229.58 TO INTERCEPT HNV VORTAC R-254 WESTBOUND TO 4000 BEFORE PROCEEDING ON COURSE.

TAKEOFF RWY 27: CLIMB HEADING 276.04 TO 3300 BEFORE PROCEEDING ON COURSE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

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

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS: RWY 5, STANDARD WITH A MINIMUM CLIMB OF 242 FT PER NM TO 2400, OR 1100-3 FOR CLIMB IN VISUAL CONDITIONS.

TAKEOFF MINIMUMS: RWY 9, 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 205 FT PER NM TO 1800. OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER.

TAKEOFF MINIMUMS: RWY 23, 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 363 FT PER NM TO 1800.

TAKEOFF MINIMUMS: RWY 27: 400-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 525 FT PER NM TO 2000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 5, POLE 678 FT FROM DER, 644 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/1536 FT MSL. TREES BEGINNING 1946 FT FROM DER. 708 FT LEFT OF CENTERLINE, UP TO 102 FT AGL/1642 FT MSL.

NOTE: RWY 9, TERRAIN AND TREES BEGINNING 43 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1577 FT MSL.

NOTE: RWY 23, TREES BEGINNING 3455 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1670 FT MSL.

NOTE: RWY 27, FENCE 111 FT FROM DER. 232 FT RIGHT OF CENTERLINE, 7 FT AGL/1546 FT MSL. POLES, PIPES AND POSTS BEGINNING 236 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 46 FT AGL/1638 FT MSL. BUILDING AND ELECTRICAL SYSTEM 986 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 19 FT AGL/1555 FT MSL. TREES BEGINNING 1088 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1660 FT MSL.



**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>
TRICITIES	TWO	TRI2.TRI	ONE	01/13/2011	12 OCTOBER 2017

CONTROLLING OBSTACLES:

RWY 5: 2179 FT MSL TREE 363054.00N/0822018.00W.

RWY 9: 1709 FT MSL TREE 362903.24N/0822209.42W.

RWY 23: 1670 FT MSL TREE 362736.84N/0822554.46W, 1704 FT MSL TREE 362707.00N/0822609.00W.

RWY 27: 1799 FT MSL TREE 362851.53N/0822529.75W, 1859 FT MSL TREE 362848.89N/0822648.46W, 1838 FT MSL TREE 362843.22N/0822655.52W.

RWY 5: (VCOA): 2226 FT MSL TOWER 363120.00N/0822526.00W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 5 - 4632 FT MSL TOWER 362658.20N/0820628.70W, RWY 9 - 4632 FT MSL TOWER 362658.20N/0820628.70W, RWY 23 - 5400 FT MSL AAO 360759.80N/0821738.80W, RWY 27 - 4519 FT MSL AAO 362610.03N/0820759.20W, RWY 5 (VCOA) - 6485 FT MSL AAO 360621.60N/0820701.80W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
TRI-CITIES	BRISTOL/JOHNSON/KINGSPORT	TN

COMMUNICATIONS:

ATIS, TRI-CITY APP CON, TRI-CITY TOWER, GND CON. UNICOM.

FIXES AND/OR NAVAIDS:

REMARKS:



**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>
TRICITIES	TWO	TRI2.TRI	ONE	01/13/2011	12 OCTOBER 2017

FLIGHT INSPECTED BY:

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW FLIGHT INSPECTION TEAM
(AJW-333) MEMO, MAY 30, 2017

Digitally signed by
JACOB POWERS
Aug 28, 2017

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

JACOB POWERS (IVAN BLANCO)

Digitally signed by
JACOB POWERS
Aug 28, 2017

OFFICE SYMBOL:

DATE:

AJV-5432

06/26/2017

APPROVED BY:

PAT MULQUEEN

Digitally signed by
JACOB POWERS
Aug 28, 2017

OFFICE SYMBOL:

DATE:

AJV-5430

REQUIRED EFFECTIVE DATE:

ROUTINE.

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA



OTHER:

CHANGES - REASONS:

1. UPDATED DP ROUTE DESCRIPTIONS: CHANGED INITIAL HEADINGS FOR RWY 5 FROM: 042.46 TO 049.56, RWY 9 FROM: 094.03 TO 096.04, RWY 23 FROM: 227.57 TO 229.58, RWY 27 FROM: 274.04 TO 276.04 - AIRPORT MAG VAR UPDATED FROM 5W/1990 TO 7W/2020.
2. CHANGED AIRPORT NAME FROM TRI-CITIES RGNL TN/VA TO TRI-CITIES - AIRNAV DATA CHANGE.
3. INCORPORATED FDC 7/0041 AND FDC 7/5785 - PUBLISHED P-NOTAMS.



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: RW24 CLIMB TO 2900 THEN CLIMBING LEFT TURN TO 5100 DIRECT KURRU AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 2499 TREE 364325N/0815918W DISTANCE TO THLD FROM HAT: 0.60 NM. CHART VDP AT 1.18 NM TO RW24* *LNAV ONLY. WAAS CHANNEL # 77827 REFERENCE PATH ID: W24A CHART CIRCLING ICON. LTP HAE: 605.3 M					
HNV VORTAC		KURRU (TF) (FO) (RNP 2.00)			039.11 / 26.37			6700							
STOVE		ZOLUB (TF) (FB) (RNP 2.00)			272.08 / 13.89			6600							
ZOLUB (IAF)		KURRU (NOPT) (TF) (FB) (RNP 1.00)			305.06 / 6.00			5100							
MIFJU (IAF)		KURRU (NOPT) (TF) (FB) (RNP 1.00)			200.94 / 5.00			5100							
KURRU (IF/IAF) (SEE FORM 8260-10)		AKQON (TF) (FB) (RNP 1.00)			241.15 / 6.05			4000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E KURRU, LT, 265.00 INBOUND, 5100 FT. IN LIEU OF PT (IAF) 3. FAC: 241.09 FAF: AKQON DIST FAF TO MAP: 5.82 THLD: 5.82 4. MIN. ALT: KURRU 5100, AKQON 4000, VIMIW/3.00 NM TO RW24 3100* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 4000 GS ALT AT: AKQON 4000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 58.0 34:1 IS CLEAR 8. MSA FROM: RW24 7000										MAG VAR: 5W		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	2337	1	250	2337	1	250	2337	1	250	2337	1	250			
LNAV/VNAV DA	2525	1 1/4	438	2525	1 1/4	438	2525	1 1/4	438	2525	1 1/4	438			
LNAV MDA	2760	1	673	2760	1	673	2760	1 3/4	673	2760	1 3/4	673			
CIRCLING	2860	1	773	2860	1	773	2860	2 1/4	773	3080	3	993			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 53C (127F). @ CAT C 800-2 1/4, 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: INOPERATIVE TABLE DOES NOT APPLY TO LPV. (CONTINUED ON PAGE 2)															
CITY AND STATE ABINGDON, VA		ELEVATION: 2087 TDZE: 2087 AIRPORT NAME: VIRGINIA HIGHLANDS			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 2 12 OCTOBER 2017					SUP: AMDT: 1A DATED 05/29/2014			



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

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TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
AKQON (FAF)	VIMIW/3.00 NM TO RW24 (TF) (FB) (RNP 0.30)	241.09 / 2.82	
VIMIW/3.00 NM TO RW24	RW24 (MAP) (TF) (FO) (RNP 0.30)	241.09 / 3.00	
RW24 (MAP)	2900 MSL (CA)	241.09	2900
2900 MSL	KURRU (DF) (FO) (RNP 1.00)		5100

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HNV VORTAC AIRWAY RADIALS 321 CW 108, AND ARRIVALS AT MIFJU ON V466 NORTHEAST BOUND, AND ARRIVALS AT STOVE ON V133 SOUTHEAST BOUND.

QUALITY
50
CHECKED

CITY AND STATE ABINGDON, VA	ELEVATION: 2087 AIRPORT NAME: VIRGINIA HIGHLANDS	TDZE: 2087 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 2 12 OCTOBER 2017	SUP:
					AMDT: 1A
					DATED: 05/29/2014

**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	KVJI
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	364125.9170N
LTP/FTP LONGITUDE	0820137.2190W
LTP/FTP ELLIPSOIDAL HEIGHT	+06053
FPAP LATITUDE	364036.0600N
FPAP LONGITUDE	0820309.0800W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1384
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

4948E2E2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+06362
FPAP ORTHOMETRIC HEIGHT	+06362

QUALITY
50
CHECKED

CITY AND STATE

ABINGDON, VA

ELEVATION: 2087

TDZE: 2087

AIRPORT NAME:

VIRGINIA HIGHLANDS

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 24, AMDT 2

12 OCTOBER 2017

SUP:

AMDT:

1A

DATED:

05/29/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25

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TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: 4.44 NM AFTER MELFA/I-MFV 5.44 DME OR AT I-MFV 1.00 DME					
CCV VORTAC (IAF)		UCGEL/CCV 10.59 DME (NOPT)		051.69 / 10.59				2000		CLIMBING RIGHT TURN TO 2000 ON HEADING 220 AND CCV VORTAC R-052 TO UCGEL/CCV 10.59 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMBING LEFT TURN TO 2000 ON HEADING 230 AND HCM VORTAC R-082 TO JAMIE INT/HCM 36.91 DME AND HOLD. ADDITIONAL FLIGHT DATA: CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W JAMIE INT/HCM 36.91 DME, LT, 082.00 INBOUND. FAS OBST: 249 AAO 373525N/0754757W CHART R-4006, R-6604A, R-6604E, R-6609. CHART W-386. CHART VDP AT 2.30 DME DISTANCE VDP TO THLD 1.29 NM. CHART IN PLANVIEW: JAMIE INT/HCM 36.91 DME. CHART CIRCLING ICON. MELFA TO RW03: 3.00/40.					
UCGEL/I-MFV 11.49 DME (IF)		MELFA/I-MFV 5.44 DME		033.98 / 6.05 (I-MFV)				1500							
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 11W EPOCH YEAR:2000					
2. HOLD SW UCGEL, RT, 033.98 INBOUND, 2000 FT. IN LIEU OF PT (IAF)															
3. FAC 033.98 FAF MELFA/I-MFV 5.44 DME DIST FAF TO MAP 4.44 THLD 4.44															
4. MIN. ALT UCGEL 2000, MELFA 1500															
8. MSA FROM: CCV VORTAC 1800															
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-03	500	1	453	500	1	453	500	1 3/8	453	500	1 3/8	453			
CIRCLING	500	1	452	560	1	512	700	1 3/4	652	700	2	652			
NOTES:															
CHART NOTE: CIRCLING TO RWY 21 NA AT NIGHT. @ NA WHEN AIRPORT OPERATIONS CLOSED.															
CHART NOTE: DME REQUIRED.															
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CCV VORTAC AIRWAY RADIALS 016 CW 041.															
CITY AND STATE		ELEVATION: 48 TDZE: 47		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP		QUALITY 10 CHECKED			
MELFA, VA		AIRPORT NAME:		I-MFV		LOC RWY 3, AMDT 1, 10/12/2017				AMDT		ORIG			
		ACCOMACK COUNTY								DATE		03/31/2016			

FAA FORM 8260-5 / April 2006 (computer generated)

PAGE 1 OF 3 PAGES

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

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QUALITY
10
CHECKED

CITY AND STATE

MELFA, VA

ELEVATION: 48

TDZE: 47

AIRPORT NAME:

ACCOMACK COUNTY

FACILITY
IDENTIFIER:

I-MFV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC RWY 3, AMDT 1, 10/12/2017

SUP:

AMDT: ORIG

DATED: 03/31/2016

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

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QUALITY
10
CHECKED

CITY AND STATE

MELFA, VA

ELEVATION: 48

TDZE: 47

AIRPORT NAME:

ACCOMACK COUNTY

FACILITY
IDENTIFIER:

I-MFV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC RWY 3, AMDT 1, 10/12/2017

SUP:

AMDT: ORIG

DATED: 03/31/2016

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES											MISSED APPROACH								
FROM		TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW03 CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT UCGEL AND HOLD. ADDITIONAL FLIGHT DATA: FAS OBST: 249 AAO 373535N/0754800W CHART R-4006, R-6604A, R-6604E, R-6609. CHART W-386. DISTANCE TO THLD FROM 297 HAT: 0.66 NM. CHART VDP AT 1.29 NM TO RW03* *LNAV ONLY. WAAS CHANNEL # 42905 REFERENCE PATH ID: W03A CHART CIRCLING ICON. LTP HAE: -22.3 M								
UCGEL (IF/IAF)		MELFA (TF) (FB) (RNP 1.00)			033.93 / 6.05				1500										
MELFA (FAF)		RW03 (MAP) (TF) (FO) (RNP 0.30)			033.96 / 4.44														
RW03 (MAP)		500 MSL (CA)			033.96														
500 MSL		UCGEL (DF) (FO) (RNP 1.00)							2000										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW UCGEL, RT, 033.93 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 033.96 FAF: MELFA DIST FAF TO MAP: 4.44 THLD: 4.44 4. MIN. ALT: UCGEL 2000, MELFA 1500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1500 GS ALT AT: MELFA 1500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 11W		EPOCH YEAR: 2000	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD									
CATEGORY =====>		A			B			C			D			E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	297	1	250	297	1	250	297	1	250	297	1	250							
LNAV/VNAV DA	349	1	302	349	1	302	349	1	302	349	1	302							
LNAV MDA	500	1	453	500	1	453	500	1 3/8	453	500	1 3/8	453							
CIRCLING	500	1	452	560	1	512	700	1 3/4	652	700	2	652							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING RWY 21 NA AT NIGHT.																			
CITY AND STATE		ELEVATION: 48 TDZE: 47			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:							
MELFA, VA		AIRPORT NAME:			ACCOMACK COUNTY		RNAV (GPS) RWY 3, AMDT 2					AMDT: 1							
							12 OCTOBER 2017					DATED 10/25/2007							

QUALITY
 10
 CHECKED

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.	304/30 CW 124/30 (NOPT)	UCGEL (IF/IAF) (FB)	2000
2.	124/30 CW 304/30	UCGEL (IF/IAF) (FO)	2000

CITY AND STATE
MELFA, VA

ELEVATION: 48 TDZE: 47
AIRPORT NAME:
ACCOMACK COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 3, AMDT 2
12 OCTOBER 2017

SUP:
AMDT: 1
DATED: 10/25/2007

QUALITY
10
CHECKED

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

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CITY AND STATE
MELFA, VA

ELEVATION: 48 TDZE: 47
AIRPORT NAME:
ACCOMACK COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 3, AMDT 2
12 OCTOBER 2017

SUP:
AMDT: 1
DATED: 10/25/2007

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	KMFV
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	373826.0080N
LTP/FTP LONGITUDE	0754551.8995W
LTP/FTP ELLIPSOIDAL HEIGHT	-00223
FPAP LATITUDE	373948.1300N
FPAP LONGITUDE	0754508.0700W
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>	 442AEBCA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00142
FPAP ORTHOMETRIC HEIGHT	+00142

CITY AND STATE
MELFA, VA

ELEVATION: 48 TDZE: 47
AIRPORT NAME:
ACCOMACK COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 3, AMDT 2
12 OCTOBER 2017

SUP: **QUALITY
10
CHECKED**
AMDT: 1
DATED: 10/25/2007

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: RW21 CLIMB TO 2000 DIRECT UCGEL AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 033.93 INBOUND. FAS OBST: 244 AAO 374200N/0754316W CHART R-4006, R-6604A, R6604E, R-6609. CHART W-386. CHART VDP AT 1.28 NM TO RW21. CHART CIRCLING ICON. RERSE TO RW21: 3.04/40.						
SWL VORTAC		PACIV (TF) (FB) (RNP 2.00)			229.93 / 12.39			2000								
CCV VORTAC		ZIXER (TF) (FO) (RNP 2.00)			039.92 / 32.31			2000								
PACIV (IAF)		ZIXER (NOPT) (TF) (FB) (RNP 1.00)			214.07 / 5.00			2000								
ZIXER (IF/IAF)		RERSE (TF) (FB) (RNP 1.00)			214.04 / 6.10			1600								
RERSE (FAF)		RW21 (MAP) (TF) (FO) (RNP 0.30)			214.01 / 4.69											
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE ZIXER, RT, 214.04 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>214.01</u> FAF: <u>RERSE</u> DIST FAF TO MAP: <u>4.69</u> THLD: <u>4.69</u> 4. MIN. ALT: ZIXER 2000, RERSE 1600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: RW21 1800																
										MAG VAR: 11W EPOCH YEAR: 2000						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LNAV MDA	500	1	452	500	1	452	500	1 3/8	452	500	1 3/8	452				
CIRCLING	500	1	452	560	1	512	700	1 3/4	652	700	2	652				
NOTES: CHART NOTE: NIGHT LANDING: RWY 21 NA. CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CCV VORTAC AIRWAY RADIALS 323 CW 041.																
CITY AND STATE		ELEVATION: 48 TDZE: 48			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:			
MELFA, VA		AIRPORT NAME:						RNAV (GPS) RWY 21, AMDT 1					AMDT: ORIG			
		ACCOMACK COUNTY						12 OCTOBER 2017					DATED 10/25/2007			

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
RW21 (MAP)	448 MSL (CA)	214.01	
448 MSL	UCGEL (DF) (FO) (RNP 1.00)		2000

CITY AND STATE
MELFA, VA

ELEVATION: 48 TDZE: 48
AIRPORT NAME:
ACCOMACK COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 21, AMDT 1
12 OCTOBER 2017

SUP:
AMDT: ORIG
DATED: 10/25/2007

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
MELFA, VA

ELEVATION: 48 TDZE: 48
AIRPORT NAME:
ACCOMACK COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 21, AMDT 1
12 OCTOBER 2017

SUP:
AMDT: ORIG
DATED: 10/25/2007



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: JAGNO/CCV 20.79 DME					
CCV VORTAC (IAF)		ZUXIG/CCV 5.00 DME		042.31 / 5.00				1900		CLIMB TO 460 THEN CLIMBING RIGHT TURN TO 1900 ON HEADING 240 AND CCV VORTAC R-042 TO EXMOR/CCV 15.00 DME AND HOLD.					
ZUXIG/5.00 DME (IF)		EXMOR/CCV 15.00 DME (NOPT)		042.31 / 10.00 (CCV R-042)				1900							
										ADDITIONAL FLIGHT DATA: CHART FAS OBST: 156 TREE 373736N/0754634W CHART 435 TOWER 373327N/0754945W. CHART R-4006, R-6604A, R-6604E, R-6609. CHART W-386. CHART CIRCLING ICON. EXMOR TO RW03: 2.95/40.					

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

2. HOLD SW EXMOR, RT, 042.31 INBOUND, 1900 FT. IN LIEU OF PT (IAF)

3. FAC 042.31 FAF EXMOR/CCV 15.00 DME DIST FAF TO MAP THLD 5.79

4. MIN. ALT EXMOR 1900, CAGXY/CCV 18.00 DME 960

8. MSA FROM: CCV VORTAC 1800

MAG VAR: 10W EPOCH YEAR:1985

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD						
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-03	440	1	393	440	1	393	440	1 1/8	393	440	1 1/8	393			
CIRCLING	500	1	452	560	1	512	700	1 3/4	652	700	2	652			

NOTES:
CHART NOTE: DME REQUIRED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CCV VORTAC AIRWAY RADIALS 016 CW 041.
CHART NOTE: CIRCLING RWY 21 NA AT NIGHT.

CITY AND STATE

MELFA, VA

ELEVATION: 48 TDZE: 47

AIRPORT NAME:

ACCOMACK COUNTY

FACILITY IDENTIFIER:

CCV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 3, AMDT 2

12 OCTOBER 2017

SUP VOR/DME RWY 3

AMDT 1

DATE 01/18/2007

FAA FORM 8260-5 / April 2006 (computer generated)

PAGE 1 OF 2 PAGES

QUALITY
10
CHECKED

**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
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CHECKED

CITY AND STATE

MELFA, VA

ELEVATION: 48

TDZE: 47

AIRPORT NAME:

ACCOMACK COUNTY

FACILITY
IDENTIFIER:

CCV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 3, AMDT 2

12 OCTOBER 2017

SUP: VOR/DME RWY 3

AMDT: 1

DATED: 01/18/2007

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31155](#); Amdt. No. [3766](#)

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

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

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

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

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

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

For Examination

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

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

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

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:

http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

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

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

SUPPLEMENTARY INFORMATION:

This rule amends Title 14, Code of Federal Regulations, Part 97 (14 CFR part 97) by amending the referenced SIAPs. The complete regulatory description of each SIAP is listed on the appropriate FAA Form 8260, as modified by the National Flight Data Center (NFDC)/Permanent Notice to Airmen (P-NOTAM), and is incorporated by reference under 5 U.S.C. 552(a), 1 CFR part 51, and 14 CFR §97.20. The large number of SIAPs, their complex nature, and the need for a special format make their verbatim publication in the **Federal Register** expensive and impractical. Further, airmen do not use the regulatory text of the SIAPs, but refer to their graphic depiction on charts printed by publishers of aeronautical materials. Thus, the advantages of incorporation by reference are realized and publication of the complete description of each SIAP contained on FAA form documents is unnecessary.

This amendment provides the affected CFR sections, and specifies the SIAPs and Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure and the amendment number.

Availability and Summary of Material Incorporated by Reference

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

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

The Rule

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP and Takeoff Minimums and ODP as amended in the transmittal. For safety and timeliness of change considerations, this amendment incorporates only specific changes contained for each SIAP and Takeoff Minimums and ODP as modified by FDC permanent NOTAMs.

The SIAPs and Takeoff Minimums and ODPs, as modified by FDC permanent NOTAM, and contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these changes to SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied only to specific conditions existing at the affected

airports. All SIAP amendments in this rule have been previously issued by the FAA in a FDC NOTAM as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for these SIAP and Takeoff Minimums and ODP amendments require making them effective in less than 30 days.

Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C. 553(d), good cause exists for making these SIAPs effective in less than 30 days.

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

List of Subjects in 14 CFR part 97:

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

Issued in Washington, DC on [September 8, 2017](#)

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

John S. Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

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

PART 97 – STANDARD INSTRUMENT APPROACH PROCEDURES

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

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

2. Part 97 is amended to read as follows:

By amending: §97.23 VOR, VOR/DME, VOR or TACAN, and VOR/DME or TACAN; §97.25 LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME; §97.27 NDB, NDB/DME; §97.29 ILS, ILS/DME, MLS, MLS/DME, MLS/RNAV; §97.31 RADAR SIAPs; §97.33 RNAV SIAPs; and §97.35 COPTER SIAPs, Identified as follows:

.....EFFECTIVE UPON PUBLICATION

AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
12-Oct-17	MT	Libby	Libby	7/6820	8/22/17	This NOTAM, published in TL 17-21, is hereby rescinded in its entirety.
AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
12-Oct-17	AK	Central	Central	7/0453	8/29/17	RNAV (GPS) RWY 8, Orig-A
12-Oct-17	AK	Central	Central	7/0454	8/29/17	RNAV (GPS) RWY 26, Orig-A
12-Oct-17	AK	Homer	Homer	7/0473	8/29/17	RNAV (GPS) Y RWY 4, Amdt 1B
12-Oct-17	AK	Homer	Homer	7/0475	8/29/17	LOC/DME RWY 4, Amdt 10A
12-Oct-17	AK	Koliganek	Koliganek	7/0477	8/29/17	RNAV (GPS) RWY 27, Amdt 1
12-Oct-17	AK	Kaltag	Kaltag	7/0478	8/29/17	RNAV (GPS) RWY 3, Orig-C
12-Oct-17	AK	Mountain Village	Mountain Village	7/0479	8/29/17	RNAV (GPS) RWY 20, Amdt 1B
12-Oct-17	AK	Pilot Point	Pilot Point	7/0480	8/29/17	RNAV (GPS) RWY 25, Orig-B
12-Oct-17	AK	Pilot Point	Pilot Point	7/0482	8/29/17	RNAV (GPS) RWY 7, Orig-B
12-Oct-17	AK	Ruby	Ruby	7/0492	8/29/17	RNAV (GPS) RWY 3, Amdt 1A
12-Oct-17	CA	Bishop	Bishop	7/0499	8/29/17	RNAV (GPS) Y RWY 12, Orig-B
12-Oct-17	CA	Bishop	Bishop	7/0500	8/29/17	RNAV (GPS) Z RWY 12, Orig-C
12-Oct-17	CA	Davis	University	7/0503	8/29/17	RNAV (GPS) RWY 17, Orig-B
12-Oct-17	CA	Bakersfield	Bakersfield Muni	7/0506	8/29/17	RNAV (GPS) RWY 34, Orig-B
12-Oct-17	CA	San Diego/El Cajon	Gillespie Field	7/0509	8/29/17	RNAV (GPS) RWY 17, Amdt 2D
12-Oct-17	CO	Meeker	Meeker Coulter Fld	7/0513	8/29/17	RNAV (GPS) RWY 3, Amdt 3B
12-Oct-17	OR	Bend	Bend Muni	7/0515	8/29/17	RNAV (GPS) Y RWY 16, Amdt 2A
12-Oct-17	OR	Mc Minnville	Mc Minnville Muni	7/0517	8/29/17	RNAV (GPS) RWY 4, Orig-A
12-Oct-17	OR	Tillamook	Tillamook	7/0519	8/29/17	RNAV (GPS) RWY 13, Orig-B
12-Oct-17	OK	Goldsby	David Jay Perry	7/1922	8/14/17	VOR/DME RWY 31, Amdt 2

12-Oct-17	GA	Dalton	Dalton Muni	7/3954	8/22/17	ILS OR LOC RWY 14, Amdt 1
12-Oct-17	MT	Libby	Libby	7/3967	8/22/17	GPS-A, Orig-C
12-Oct-17	WA	Seattle	Boeing Field/King County Intl	7/4152	8/22/17	ILS OR LOC RWY 31L, Amdt 1B

AIRAC Date: 12 OCTOBER 2017

FDC **7/0453** CEM IAP CENTRAL, Central, AK. RNAV (GPS) RWY 8, ORIG-A...
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 8, ORIG-B. 1707131533-
PERM

FDC **7/0454** CEM IAP CENTRAL, Central, AK. RNAV (GPS) RWY 26, ORIG-A...
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 26, ORIG-B. 1707131533-
PERM

FDC **7/0473** HOM IAP HOMER, Homer, AK. RNAV (GPS) Y RWY 4, AMDT 1B...
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) Y RWY 4, AMDT 1C.
1707131533-PERM

FDC **7/0475** HOM IAP HOMER, Homer, AK. LOC/DME RWY 4, AMDT 10A... CHART
PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE:
DESCENT ANGLE NA. THIS IS LOC/DME RWY 4, AMDT 10B. 1707131533-PERM

FDC **7/0477** JZZ IAP KOLIGANEK, Koliganek, AK. RNAV (GPS) RWY 27, AMDT 1...
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 27, AMDT 1A.
1707131533-PERM

FDC **7/0478** KAL IAP KALTAG, Kaltag, AK. RNAV (GPS) RWY 3, ORIG-C... CHART
PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE:
DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 3, ORIG-D. 1707131533-PERM

FDC **7/0479** MOU IAP MOUNTAIN VILLAGE, Mountain Village, AK. RNAV (GPS)
RWY 20, AMDT 1B... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 20,
AMDT 1C. 1707131533-PERM

FDC **7/0480** PNP IAP PILOT POINT, Pilot Point, AK. RNAV (GPS) RWY 25, ORIG-
B... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 25, ORIG-C.
1707131533-PERM

FDC **7/0482** PNP IAP PILOT POINT, Pilot Point, AK. RNAV (GPS) RWY 7, ORIG-B...
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 7, ORIG-C. 1707131533-
PERM

FDC **7/0492** RBY IAP RUBY, Ruby, AK. RNAV (GPS) RWY 3, AMDT 1A... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 3, AMDT 1B. 1707131533-PERM

FDC **7/0499** BIH IAP BISHOP, Bishop, CA. RNAV (GPS) Y RWY 12, ORIG-B... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) Y RWY 12, ORIG-C. 1707131533-PERM

FDC **7/0500** BIH IAP BISHOP, Bishop, CA. RNAV (GPS) Z RWY 12, ORIG-C... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) Z RWY 12, ORIG-D. 1707131533-PERM

FDC **7/0503** EDU IAP UNIVERSITY, Davis, CA. RNAV (GPS) RWY 17, ORIG-B... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 17, ORIG-C. 1707131533-PERM

FDC **7/0506** L45 IAP BAKERSFIELD MUNI, Bakersfield, CA. RNAV (GPS) RWY 34, ORIG-B... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 34, ORIG-C. 1707131533-PERM

FDC **7/0509** SEE IAP GILLESPIE FIELD, San Diego/El Cajon, CA. RNAV (GPS) RWY 17, AMDT 2D... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 17, AMDT 2E. 1707131533-PERM

FDC **7/0513** EEO IAP MEEKER COULTER FLD, Meeker, CO. RNAV (GPS) RWY 3, AMDT 3B... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 3, AMDT 3C. 1707131533-PERM

FDC **7/0515** BDN IAP BEND MUNI, Bend, OR. RNAV (GPS) Y RWY 16, AMDT 2A... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) Y RWY 16, AMDT 2B. 1707131533-PERM

FDC **7/0517** MMV IAP MC MINNVILLE MUNI, Mc Minnville, OR. RNAV (GPS) RWY 4, ORIG-A... CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 4, ORIG-B. 1707131533-PERM

FDC **7/0519** TMK IAP TILLAMOOK, Tillamook, OR. RNAV (GPS) RWY 13, ORIG-B...
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. DELETE PROFILE
NOTE: DESCENT ANGLE NA. THIS IS RNAV (GPS) RWY 13, ORIG-C.
1707131533-PERM

FDC **7/1922** 1K4 IAP DAVID JAY PERRY, Goldsby, OK. VOR/DME RWY 31, AMDT 2
... CIRCLING CAT A/B/C HAA 611. CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 13, 17, 31, 35 HELICOPTER VISIBILITY REDUCTION BELOW
1 SM NOT AUTHORIZED. CHART AIRPORT ELEVATION 1169. CHART PLANVIEW
NOTE: DME REQUIRED. CHART NOTE: DME REQUIRED. THIS IS VOR RWY 31,
AMDT 2A. 1706141159-PERM

FDC **7/3954** DNN IAP DALTON MUNI, Dalton, GA. ILS OR LOC RWY 14, AMDT 1...
CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1200 MSL. THIS IS
ILS OR LOC RWY 14, AMDT 1A. 1708301518-PERM

FDC **7/3967** S59 IAP LIBBY, Libby, MT. GPS-A, ORIG-C... CIRCLING CAT A/B MDA
5240/HAA 2635. CHART APT ELEV 2605. CHART NOTE: RWY 15, 33
HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE
NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHANGE MISSED APPROACH INSTRUCTIONS TO READ: CLIMB TO 9600 ON
148.00 COURSE TO EYESE AND HOLD. THIS IS GPS-A, ORIG-D. 1708301530-
PERM

FDC **7/4152** BFI IAP BOEING FIELD/KING COUNTY INTL, Seattle, WA. ILS OR LOC
RWY 31L, AMDT 1B ... MISSED APPROACH: CLIMB TO 700 THEN CLIMBING
LEFT TURN TO 6000 ON HEADING 290 AND SEA R-310 TO LOFAL INT/SEA 29.2
DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000. INITIAL COURSE 315.
FINAL COURSE 315. CHANGE ALL REFERENCES FROM RWY 31L TO RWY 32L.
THIS IS ILS OR LOC RWY 32L AMDT 1C. 1708301807-PERM