

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 17-18

July 14, 2017

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

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

**The following are corrected copies of procedures previously published in TL 17-15 on June
2, 2017, in TL 17-16 on June 16, 2017, and in TL 17-17 on June 30, 2017.**

Ontario, CA, Ontario Intl, ILS OR LOC RWY 26L, ILS RWY 26L (CAT II), ILS RWY 26L
(CAT III), Amdt 8
Ontario, CA, Ontario Intl, ILS OR LOC RWY 26R, Amdt 5
Lewiston, ID, Lewiston-Nez Perce County, RNAV (RNP) RWY 30, Orig-C
Worcester, MA, Worcester Rgnl, ILS OR LOC RWY 11, Amdt 24
Marlette, MI, Marlette, RNAV (GPS) RWY 19, Orig-B
Walker, MN, Walker Muni, RNAV (GPS) RWY 33, Amdt 2
Kansas City, MO, Charles B Wheeler Downtown, ILS OR LOC RWY 19, Amdt 24
Kansas City, MO, Charles B Wheeler Downtown, RNAV (GPS) RWY 19, Amdt 1
Kansas City, MO, Charles B Wheeler Downtown, RNAV (GPS) RWY 21, Amdt 2
St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 6, Amdt 1F
St Louis, MO, St Louis Lambert Intl, RNAV (RNP) Z RWY 12L, Orig-B
Winnemucca, NV, Winnemucca Muni, RNAV (GPS) RWY 32, Orig-A
Dansville, NY, Dansville Muni, RNAV (GPS) RWY 14, Orig-A
Lake City, SC, Lake City Muni CJ Evans Field, RNAV (GPS) RWY 19, Orig-A
Madison, SD, Madison Muni, RNAV (GPS) RWY 15, Orig-B
Lakeway, TX, Lakeway Airpark, RNAV (GPS) RWY 16, Amdt 1B

**The following procedures, previously published in TL 17-16, on June 16, 2017, and
TL 17-17, on June 30, 2017, have been rescinded in their entirety.**

Arcata/Eureka, CA, California Redwood Coast - Humboldt County, Takeoff Minimums and
Obstacle DP, Amdt 8
Livermore, CA, Livermore Muni, ILS RWY 25R, Amdt 8
Livermore, CA, Livermore Muni, LOC RWY 25R, Orig
Immokalee, FL, Immokalee Rgnl, VOR RWY 18, Amdt 7
Muscatine, IA, Muscatine Muni, VOR RWY 6, Orig-D, CANCELED
Mc Call, ID, Mc Call Muni, PEPUC TWO, Graphic DP

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: 6.02 NM AFTER TESRE INT/I-TWO 7.84 DME OR AT I-TWO 1.82 DME CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 4000 DIRECT PDZ VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 258.00 INBOUND. FAS OBST: 1059 TREE 340332N/1173329W 2000 AAO 340220N/1172711W CHART 1187 T-L TOWER 340325N/1173137W CHART VDP AT 2.89 DME* DISTANCE VDP TO THLD 1.06 NM. *LOC ONLY. CHART CIRCLING ICON. CHART OM IN HALF-TONE					
PDZ VORTAC (IAF)		HIGRO INT			045.99 / 11.13			5000							
HIGRO INT		PETIS NDB/INT/I-TWO 12.96 DME			317.78 / 3.28 (HDF R-318)			4300							
PETIS NDB/INT/I-TWO 12.96 DME (IAF)		YUCUC INT/I-TWO 10.26 DME			257.69 / 2.35			3600							
TAKOE (IAF)		YUCUC (TF) (FB) (RNP 1.00)			257.77 / 2.43			3600							
YUCUC INT/I-TWO 10.26 DME (IF)		TESRE INT/7.84 DME			257.99 / 2.42 (I-TWO)			2900							
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT YUCUC 3. FAC: 257.99 FAF: TESRE INT/7.84 DME DIST FAF TO MAP: 6.02 THLD: 6.02 4. MIN. ALT: YUCUC 3600, TESRE 2900, BAKES/I-TWO 4.12 DME 1720* 5. DIST TO THLD FROM OM: - MM: - IM: 786 150 HAT: - 100 HAT: 801 GS ANT: 1160 6. MIN GS INCPT: 2900 GS ALT AT: TESRE 2900 OM: - MM: - IM: 1023 7. GS ANGLE: 3.00 TCH: 57.8 8. MSA FROM: PDZ VORTAC 020-110 9000, 110-290 7000, 290-020 11300															
										MAG VAR: 12E			EPOCH YEAR: 2015		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		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 26L	1126	1800	200	1126	1800	200	1126	1800	200	1126	1800	200			
S-LOC 26L	1720	2400	794	1720	4000	794	1720	1 3/4	794	1720	1 3/4	794			
SIDESTEP 26R	1720	5500	788	1720	5500	788	1720	1 3/4	788	1720	2	788			
BAKES FIX MINIMUMS															
S-LOC 26L	1340	2400	414	1340	2400	414	1340	4000	414	1340	4000	414			
CIRCLING	1720	1	776	1720	1 1/4	776	1720	2 1/2	776	1720	2 1/2	776			
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 26L: CAT A, B, C, D, RA 103, RVR 1200, HAT 100, DA 1026 MSL. CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 26L: CAT III CAT A, B, C, D, RVR 600. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 944		TDZE: 26L 926		FACILITY IDENTIFIER: I-TWO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
ONTARIO, CA		AIRPORT NAME:		TDZE: 26R 932				ILS OR LOC RWY 26L, AMDT 8; ILS RWY 26L (CAT II), ILS RWY 26L (CAT III)				AMDT: 7D			
		ONTARIO INTL						17 AUGUST 2017				DATED 04/05/2012			

QUALITY
16
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.			
NOTES, (CONT.): CHART NOTE: CIRCLING NA NORTH OF RWY 8L-26R. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})<----- *LOC ONLY SIDESTEP 26R: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP CATS A AND B. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PDZ VORTAC AIRWAY RADIALS 012 CW 078. CHART PLANVIEW NOTE ADJACENT TO TAKEO: RNAV 1-GPS REQUIRED						
QUALITY 27 CHECKED						
CITY AND STATE ONTARIO, CA		ELEVATION: 944 AIRPORT NAME: ONTARIO INTL	TDZE: 26L 926 TDZE: 26R 932	FACILITY IDENTIFIER: I-TWO	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 26L, AMDT 8; ILS RWY 26L (CAT II) , ILS RWY 26L (CAT III) 17 AUGUST 2017	SUP: AMDT: 7D DATED: 04/05/2012

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 5.99 NM AFTER SCRIM INT/I-ONT 8.16 DME OR AT I-ONT 2.18 DME CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 4000 DIRECT PDZ VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 258.00 INBOUND. CHART FAS OBST: 1054 TOWER 340309N/1173256W CHART: 1111 T-L TWR 340259N/1173157W 1998 AAO 340218N/1172712W CHART VDP AT 3.27 DME* DISTANCE VDP TO THLD 1.15 NM. *LOC ONLY. CHART CIRCLING ICON.						
PDZ VORTAC (IAF)		HIGRO INT			045.99 / 11.13			5000								
HIGRO INT		PETIS NDB/INT/I-ONT 12.96 DME			317.78 / 3.28 (HDF R-318)			4300								
PETIS NDB/INT/I-ONT 12.96 DME (IAF)		ZEBLU INT/I-ONT 10.61 DME			258.03 / 2.35 (I-ONT)			3600								
TAKOE (IAF)		ZEBLU (TF) (FB) (RNP 1.00)			258.52 / 2.43			3600								
ZEBLU INT/I-ONT 10.61 DME (IF)		SCRIM INT/8.16 DME			257.98 / 2.45 (I-ONT)			2900								
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ZEBLU 3. FAC: 257.98 FAF: SCRIM INT/8.16 DME DIST FAF TO MAP: 5.99 THLD: 5.99 4. MIN. ALT: ZEBLU 3600, SCRIM 2900, WUNAK/I-ONT 4.17 DME 1620* ← 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1160 6. MIN GS INCPT: 2900 GS ALT AT: SCRIM 2900 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 59.7 34:1 IS CLEAR 8. MSA FROM: PDZ VORTAC 020-110 9000, 110-290 7000, 290-020 11300																
										MAG VAR: 12E			EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		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 26R**	1132	2400	200	1132	2400	200	1132	2400	200	1132	2400	200				
S-LOC 26R	1620	2400	688	1620	2400	688	1620	1 1/2	688	1620	1 1/2	688				
SIDESTEP 26L	1720	5500	794	1720	5500	794	1720	1 3/4	794	1720	2	794				
WUNAK FIX MINIMUMS																
S-LOC 26R	1360	2400	428	1360	2400	428	1360	4000	428	1360	4000	428				
CIRCLING	1620	1	676	1620	1	676	1620	2	676	1620	2 1/4	676				
NOTES: CHART NOTE: CIRCLING NA NORTH OF RWY 8L-26R. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP 26L CAT A/B CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PDZ VORTAC AIRWAY RADIALS 012 CW 078. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 944		TDZE: 26R 932		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
ONTARIO, CA		AIRPORT NAME:		TDZE: 26L 926		I-ONT		ILS OR LOC RWY 26R, AMDT 5				AMDT: 4A				
		ONTARIO INTL						17 AUGUST 2017				DATED 05/26/2016				

QUALITY
 27
 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.

NOTES, (CONT.):

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

CHART PLAINVIEW NOTE ADJACENT TO TAKEO: RNAV 1-GPS REQUIRED.

QUALITY
16
CHECKED

CITY AND STATE

ONTARIO, CA

ELEVATION: 944

AIRPORT NAME:

ONTARIO INTL

TDZE: 26R 932
TDZE: 26L 926

FACILITY
IDENTIFIER:
I-ONT

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 26R, AMDT 5
17 AUGUST 2017

SUP:

AMDT: 4A

DATED: 05/26/2016

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: DA							
ALW VOR/DME		LEZLE (TF) (FB) (RNP 2.00)		070.51 / 47.53				8700		CLIMB TO 6000 ON TRACK 296.63 TO HERAG, LEFT TURN TO VESZY, LEFT TURN TO ISEKE AND ON TRACK 019.64 TO MQG VOR/DME AND HOLD.							
LEZLE (IAF)		FESEX (TF) (FB) (RNP 1.00)		072.78 / 21.85				6900									
FESEX (IAF)		OHAXI (RF) (FB) (RNP 1.00)		(6.30 NM RADIUS CCW AXYUT)/7.46				6200									
OXLEY (IAF)		OHAXI (TF) (FB) (RNP 1.00)		005.29 / 20.67				6500									
OHAXI		EZHUS (RF) (FB) (RNP 1.00)		(5.40 NM RADIUS CCW CMGAP)/4.91				5400		ADDITIONAL FLIGHT DATA: HOLD NE, RT, 230 INBOUND. ROUTE TYPE QUALIFIER: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S # TCH 1488.6 MSL (DO NOT CHART) DISTANCE TO THLD FROM 336 HAT: 0.91NM							
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-16.																	
1. PT <u>NA</u> SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. PROFILE STARTS AT UDAGE _____																	
3. FAC: ** _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____																	
4. MIN. ALT: <u>UDAGE 5300, LIMBY 4900, SEGHA 3900</u> ←																	
5. DIST TO THLD FROM OM: <u>7.42</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: <u>3900</u> GS ALT AT: <u>SEGHA 3900, ZEBEL 3468, ILVEC 2646</u> OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: <u>3.00</u> TCH: <u>47.0#</u> <u>34:1 IS CLEAR</u>																	
8. MSA FROM: <u>RW30 7700</u>												MAG VAR: <u>15E</u>			EPOCH YEAR: <u>2010</u>		
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	
AUTHORIZATION REQUIRED																	
RNP 0.30 DA		1778		1 1/8		336		1778		1 1/8		336		1778		1 1/8	
NOTES: CHART NOTE: GPS AND RF REQUIRED. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 46C (114F). CHART NOTE: MISSED APPROACH REQUIRES RNP LESS THAN RNP 1.00. (CONTINUED ON PAGE 2)																	
CITY AND STATE LEWISTON, ID				ELEVATION: 1442 TDZE: 1442 AIRPORT NAME: LEWISTON-NEZ PERCE COUNTY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) RWY 30, ORIG-C 17 AUGUST 2017						SUP: AMDT: ORIG-B DATED 06/30/2011	



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



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.54 NM AFTER RILOC INT/I-RSR 5.44 DME						
GDM VOR/DME		RILOC INT/I-RSR 5.44 DME		187.28 / 16.46 (GDM R-187)				2900		CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND GDM VOR/DME R-167 TO LAWRN/GDM 23.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ALTERNATE MA (DO NOT CHART): CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 160 AND PUT VOR/DME R-030 TO TROY INT/PUT 7.81 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 347.26 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE TROY INT, LT, 210.28 INBOUND. CHART IN PLANVIEW: TROY INT/PUT 7.81 DME. FAS OBST: 1243 AAO 421637N/0715855W CHART VDP AT 1.36 DME* DISTANCE VDP TO THLD 1.45 NM. *LOC ONLY. CHART CIRCLING ICON. CHART IN PLANVIEW: GDM VOR/DME R-209 INTERSECTING FIX SPENO.						
SPENO INT/I-RSR 11.65 DME (IF/IAF)		RILOC INT/I-RSR 5.44 DME (NOPT)		108.84 / 6.21 (I-RSR)				2800								
THIS IS A CORRECTED PROCEDURE ORIGINALLY PUBLISHED IN TL 17-16.																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 15W EPOCH YEAR: 1995						
2. HOLD W RILOC, LT, 108.84 INBOUND, 2800 FT. IN LIEU OF PT (IAF)																
3. FAC: 108.84 FAF: RILOC INT/I-RSR 5.44 DME DIST FAF TO MAP: 5.54 THLD: 5.54																
4. MIN. ALT: RILOC 2800																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 1057																
6. MIN GS INCPT: 2800 GS ALT AT: RILOC 2800 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 55.1																
8. MSA FROM: GDM VOR/DME 060-330 3300, 330-060 4400																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @								
CATEGORY =====>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 11		1180	1800	200	1180	1800	200	1180	1800	200	1180	1800	200			
S-LOC 11		1500	2400	520	1500	2400	520	1500	5500	520	1500	5500	520			
CIRCLING		1560	1	551	1720	1	711	2000	3	991	2000	3	991			
NOTES: CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPENO ON V-229 SOUTHWEST BOUND AND ON V270 WESTBOUND. (CONTINUED ON PAGE 2)																
CITY AND STATE WORCESTER, MA		ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL		FACILITY IDENTIFIER: I-RSR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 11, AMDT 24, 08/17/2017						SUP: AMDT: 23C DATED 12/11/2014				



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

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

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GDM VOR/DME RADIALS 179 CW 246.

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

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1360. ←

QUALITY
34
CHECKED

CITY AND STATE

WORCESTER, MA

ELEVATION: 1009

TDZE: 980

AIRPORT NAME:

WORCESTER RGNL

FACILITY
IDENTIFIER:
I-RSR

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

SUP:

AMDT: 23C

DATED: 12/11/2014

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

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



CITY AND STATE WORCESTER, MA	ELEVATION: 1009 TDZE: 980 AIRPORT NAME: WORCESTER RGNL	FACILITY IDENTIFIER: I-RSR	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 11, AMDT 24, 08/17/2017	SUP:
				AMDT: 23C
				DATED: 12/11/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW19 CLIMB TO 3000 DIRECT JAMOV AND ON TRACK 157.31 TO HEMIS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 256.37 INBOUND. CHART FAS OBST: 997 TOWER 431903N/0830441W DISTANCE TO THLD FROM 319 HAT: 0.88 NM. WAAS CHANNEL # 70421 REFERENCE PATH ID: W19A CHART CIRCLING ICON. CHART CARO AWOS LTP HAE: 238.6 M									
HABIN (IF/IAF)		WURKU (TF) (FB) (RNP 1.00)			191.80 / 6.03			2500											
WURKU (FAF)		CUVSO/2.40 NM TO RW19 (TF) (FB) (RNP 0.30)			191.79 / 2.52														
CUVSO/2.40 NM TO RW19		RW19 (MAP) (TF) (FO) (RNP 0.30)			191.79 / 2.40														
RW19 (MAP)		1214 MSL (CA)			191.79														
1214 MSL		JAMOV (DF) (FB) (RNP 1.00)								3000 THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.									
JAMOV		HEMIS (TF) (FO) (RNP 1.00)			157.31 / 4.82			3000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N HABIN, RT, 191.80 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 191.79 FAF: WURKU DIST FAF TO MAP: 4.92 THLD: 4.92 4. MIN. ALT: HABIN 3000, WURKU 2500, CUVSO/2.40 NM TO RW19 1680* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: WURKU 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: _____																MAG VAR: 8W		EPOCH YEAR: 2010	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A ☒ X												
CATEGORY =====>		A			B			C			D			E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	1214	1 1/8	319	1214	1 1/8	319	1214	1 1/8	319	1214	1 1/8	319							
LNAV/VNAV DA	1264	1 1/4	369	1264	1 1/4	369	1264	1 1/4	369	1264	1 1/4	369							
LNAV MDA	1340	1	445	1340	1	445	1340	1 3/8	445	1340	1 3/8	445							
CIRCLING	1460	1	565	1460	1	565	1460	1 1/2	565	1560	2	665							
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT. (CONTINUED ON PAGE 2)																			
CITY AND STATE MARLETTE, MI		ELEVATION: 895 TDZE: 895 AIRPORT NAME: MARLETTE			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-B 17 AUGUST 2017					SUP:							
												AMDT: ORIG-A							
												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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NOTES, (CONT.):

*RNAV ONLY

CHART NOTE: USE CARO ALTIMETER SETTING; WHEN NOT RECEIVED USE BARO ALTIMETER SETTING AND INCREASE LPV DA TO 1230 FEET; INCREASE RNAV/VNAV DA TO 1280 FEET; INCREASE ALL MDA 20 FEET AND CIRCLING CAT D VISIBILITY 1/4 SM.

TAA

	FROM	TO	ALT
1.	102/30 CW 282/30 (NOPT)	HABIN (IF/IAF) (FB)	3000
2.	282/30 CW 102/30	HABIN (IAF) (FO)	3000

QUALITY
29
CHECKED

CITY AND STATE MARLETTE, MI	ELEVATION: 895 AIRPORT NAME: MARLETTE	TDZE: 895 MARLETTE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-B 17 AUGUST 2017	SUP:
					AMDT: ORIG-A
					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	77G
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	431905.7910N
LTP/FTP LONGITUDE	0830528.2285W
LTP/FTP ELLIPSOIDAL HEIGHT	+02386
FPAP LATITUDE	431736.8700N
FPAP LONGITUDE	0830536.2900W
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	1688
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

4AB88729

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02727
FPAP ORTHOMETRIC HEIGHT	+02727

QUALITY
29
CHECKED

CITY AND STATE MARLETTE, MI	ELEVATION: 895 AIRPORT NAME: MARLETTE	TDZE: 895 MARLETTE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-B 17 AUGUST 2017	SUP:
					AMDT: ORIG-A
					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														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LP: RW33 LNAV: RW33							
NIWRA (IF/IAF)				KEPBE (TF) (FB) (RNP 1.00)			327.34 / 6.20				3000		CLIMB TO 3400 DIRECT TIROC AND HOLD.							
KEPBE (FAF)				LUYEP/2.92 NM TO RW33 (TF) (FB) (RNP 0.30)			327.27 / 2.15													
LUYEP/2.92 NM TO RW33				RW33 (MAP) (TF) (FO) (RNP 0.30)			327.27 / 2.92						ADDITIONAL FLIGHT DATA: HOLD NW, RT, 147.12 INBOUND. CHART FAS OBST: 1453 TREE 470906N/0943812W CHART FAS OBST: 1529 TREE 470709N/0943733W CHART 1899 TOWER 470536N/0943448W. CHART PROFILE NOTE: VISUAL SEGMENT-OBSTACLES. WAAS CHANNEL # 82734 REFERENCE PATH ID: W33A CHART CIRCLING ICON. LTP HAE: 382.5 M							
RW33 (MAP)				1720 MSL (CA)			327.27				3400									
1720 MSL				TIROC (DF) (FO) (RNP 1.00)																
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.																				
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																				
2. HOLD SE NIWRA, RT, 327.34 INBOUND, 3400 FT. IN LIEU OF PT (IAF)																				
3. FAC: 327.27 FAF: KEPBE DIST FAF TO MAP: 5.07 THLD: 5.07																				
4. MIN. ALT: KEPBE 3000, LUYEP/2.92 NM TO RW33 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: 																				
														MAG VAR: 1E				EPOCH YEAR: 2015		
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @								
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LP MDA	1720	1	372	1720	1	372	1720	1	372		NA									
LNAV MDA	1780	1	432	1780	1	432	1780	1 1/4	432		NA									
CIRCLING	1860	1	512	1860	1	512	2140	2 1/4	792		NA									
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONGVILLE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET; INCREASE LP AND CIRCLING CAT C VISIBILITY 1/4 SM; INCREASE LNAV CAT C VISIBILITY 1/8 SM. (CONTINUED ON PAGE 2)																				
CITY AND STATE WALKER, MN				ELEVATION: 1348 TDZE: 1348 AIRPORT NAME: WALKER MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 2 17 AUGUST 2017				SUP: AMDT: 1 DATED 08/20/2015						



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

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NOTES, (CONT.):

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART NOTE: RWY33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	237/30 CW 057/30 (NOPT)	NIWRA (IF/IAF) (FB)	3400
2.	057/30 CW 237/30	NIWRA (IF/IAF) (FO)	3400

QUALITY
30
CHECKED

CITY AND STATE WALKER, MN	ELEVATION: 1348 TDZE: 1348 AIRPORT NAME: WALKER MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1
				DATED: 08/20/2015

**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	Y49
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	470920.6225N
LTP/FTP LONGITUDE	0943830.9760W
LTP/FTP ELLIPSOIDAL HEIGHT	+03825
FPAP LATITUDE	471036.3220N
FPAP LONGITUDE	0943939.7625W
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	1768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 38543E54

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04103
FPAP ORTHOMETRIC HEIGHT	+04103

QUALITY
30
CHECKED

CITY AND STATE WALKER, MN	ELEVATION: 1348 AIRPORT NAME: WALKER MUNI	TDZE: 1348 WALKER MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 2 17 AUGUST 2017	SUP:
					AMDT: 1
					DATED: 08/20/2015

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.65 NM AFTER ZODGA/I-MKC 6.76 DME/RADAR OR AT I-MKC 1.11 DME					
ANX VORTAC		COVRI/I-MKC 13.86 DME/RADAR		301.17 / 23.76 ←				3000		CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT TOP VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT RUGBB AND HOLD. (RNAV I-GPS REQUIRED).					
COVRI/I-MKC 13.86 DME/RADAR (IF/IAF)		ZODGA/I-MKC 6.76 DME/RADAR		191.69 / 7.10 (I-MKC)				2600							
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.										ADDITIONAL FLIGHT DATA: HOLD NE, LT, 205.00 INBOUND. CHART FAS OBST: 1035 TOWER 390956N/0943434W CHART 1336 TOWER 391304N/0943357W CHART CIRCLING ICON. CHART VDP AT 2.67 DME* DISTANCE VDP TO THLD 1.56 NM. *LOC ONLY CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW RUGBB, RT, 043.24 INBOUND. CHART ANX VORTAC R-301 AND MCI VORTAC R-066 AT COVRI. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N COVRI, RT, 191.69 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 191.69 FAF: ZODGA/I-MKC 6.76 DME/RADAR DIST FAF TO MAP: 5.65 THLD: 5.65 4. MIN. ALT: COVRI 3000, ZODGA 2600, ONOPE/I-MKC 3.19 DME 1460* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1037 6. MIN GS INCPT: 2600 GS ALT AT: ZODGA 2600 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 46.2 8. MSA FROM: ANX VORTAC 3100										MAG VAR: 1E EPOCH YEAR: 2020					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: #		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 19	1004	4000	250	1004	4000	250	1004	4000	250	1004	4000	250			
S-LOC 19	1460	4000	706	1460	5500	706	1460	1 7/8	740	1460	1 7/8	706			
CIRCLING	1460	1	743	1460	1	703	1460	2	703	1540	2 1/2	783			
DME MINIMUMS															
S-LOC 19	1300	4000	546	1300	4000	546	1300	1 3/8	546	1300	1 3/8	546			
CIRCLING	1380	1	623	1400	1	643	1460	2	703	1540	2 1/2	783			
NOTES: CHART NOTE: CIRCLING NA E OF RWY 1-19. CHART NOTE: DME OR RADAR REQUIRED. CHART NOTE: CIRCLING NA TO RWY 21. CHART NOTE: FOR INOPERATIVE ALS, INCREASED S-LOC 19 CAT C/D VISIBILITY TO 2 SM. (CONTINUED ON PAGE 2)															
CITY AND STATE KANSAS CITY, MO		ELEVATION: 757 TDZE: 754 AIRPORT NAME: CHARLES B WHEELER DOWNTOWN		FACILITY IDENTIFIER: I-MKC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 19, AMDT 24, 08/17/2017				SUP: AMDT: 23A DATED 07/24/2014					



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

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NOTES, (CONT.):
CHART NOTE: CIRCLING NA FOR CAT D TO RWY 3.
CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.



CITY AND STATE KANSAS CITY, MO	ELEVATION: 757 TDZE: 754 AIRPORT NAME: CHARLES B WHEELER DOWNTOWN	FACILITY IDENTIFIER: I-MKC	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 19, AMDT 24, 08/17/2017	SUP:
				AMDT: 23A
				DATED: 07/24/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: WALOR					
BQS VOR/DME		DONNS (TF) (FB) (RNP 2.00)		236.00 / 10.00				3000		CLIMBING RIGHT TURN TO 4000 DIRECT MIFEV AND ON TRACK 236.00 TO YETUK AND HOLD.					
DONNS (IAF)		COVRI (NOPT) (TF) (FB) (RNP 1.00)		240.62 / 25.09				3000							
COVRI (IF/IAF)		ZODGA (TF) (FB) (RNP 1.00)		191.71 / 7.10				2600		ADDITIONAL FLIGHT DATA: HOLD SE, RT, 296.19 INBOUND (DO NOT CHART). CHART FAS OBST: 1055 TREE 391001N/0943520W DISTANCE TO THLD FROM 403 HAT: 1.12 NM. WAAS CHANNEL # 90320 REFERENCE PATH ID: W19A CHART CIRCLING ICON. CHART VDP AT 0.82 NM TO WALOR* * LNAV ONLY LTP HAE: 197.4 M					
ZODGA (FAF)		ZEGAP/2.00 NM TO WALOR (TF) (FB) (RNP 0.30)		191.71 / 2.78											
ZEGAP/2.00 NM TO WALOR		WALOR (MAP) (TF) (FO) (RNP 0.30)		191.71 / 2.00											
(SEE FORM 8260-10)															
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 1E EPOCH YEAR: 2020					
2. HOLD N COVRI, RT, 191.73 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: 191.71 FAF: ZODGA DIST FAF TO MAP: 4.78 THLD: 5.65															
4. MIN. ALT: COVRI 3000, ZODGA 2600, ZEGAP/2.00 NM TO WALOR 1700*															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 2600 GS ALT AT: ZODGA 2600 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 46.2 34:1 IS NOT CLEAR															
8. MSA FROM: WALOR 3100															
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	1157	6000	403	1157	6000	403	1157	6000	403	1157	6000	403			
LNAV/VNAV DA	1300	1 5/8	546	1300	1 5/8	546	1300	1 5/8	546	1300	1 5/8	546			
LNAV MDA	1340	4000	586	1340	4000	586	1340	1 3/8	586	1640	2 1/2	886			
CIRCLING	1380	1	623	1400	1	643	1460	2	703	1640	3	883			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F). @ CAT D 900-3 CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BQS VOR/DME ON V502 NORTHEAST BOUND. (CONTINUED ON PAGE 2)															
CITY AND STATE KANSAS CITY, MO		ELEVATION: 757 TDZE: 754 AIRPORT NAME: CHARLES B WHEELER DOWNTOWN		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1 17 AUGUST 2017					SUP: AMDT: ORIG-B DATED 07/24/2014				



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
WALOR (MAP)	1157 MSL (CA)	191.71	
1157 MSL	MIFEV (DF) (FB) (RNP 1.00)		
MIFEV	YETUK (TF) (FO) (RNP 1.00)	236.00 / 9.65	4000

NOTES, (CONT.):

CHART NOTE: CIRCLING CAT C/D NA TO RWY 3.

CHART NOTE : RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NA.

CHART NOTE : CIRCLING NA TO RWY 21.

CHART NOTE : FOR INOPERATIVE ALS, INCREASE LNAV CAT A/B VISIBILITY TO RVR 6000 AND CAT C TO 1 3/4 SM.

INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT D.

QUALITY
4
CHECKED

CITY AND STATE
KANSAS CITY, MO

ELEVATION: 757 TDZE: 754
AIRPORT NAME:
CHARLES B WHEELER DOWNTOWN

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 19, AMDT 1
17 AUGUST 2017

SUP:
AMDT: ORIG-B
DATED: 07/24/2014

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 INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KMKC
RUNWAY RW19
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W19A
LTP/FTP LATITUDE 390755.7930N
LTP/FTP LONGITUDE 0943525.0685W
LTP/FTP ELLIPSOIDAL HEIGHT +01974
FPAP LATITUDE 390628.7900N
FPAP LONGITUDE 0943550.2200W
THRESHOLD CROSSING HEIGHT (TCH) 00046.2
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0760
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

5A709CD0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3
LTP ORTHOMETRIC HEIGHT +02299
FPAP ORTHOMETRIC HEIGHT +02299

QUALITY
4
CHECKED

CITY AND STATE KANSAS CITY, MO	ELEVATION: 757 TDZE: 754 AIRPORT NAME: CHARLES B WHEELER DOWNTOWN	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-B
				DATED: 07/24/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES														MISSED APPROACH												
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LP: FISGO LNAV: FISGO													
ANX VORTAC				WOTUR (TF) (FB) (RNP 2.00)			316.29 / 9.53				3700		CLIMB TO 3700 DIRECT HOTVA AND ON TRACK 169.00 TO ZADGU AND ON TRACK 091.32 TO ULKEC AND ON TRACK 053.04 TO ANX VORTAC AND HOLD.													
WOTUR (IAF)				CEVKO (TF) (FB) (RNP 1.00)			295.09 / 7.00				3700															
AYOCI (IAF)				CEVKO (TF) (FB) (RNP 1.00)			164.62 / 8.59				3700															
CEVKO (IF)				OKTUE (TF) (FB) (RNP 1.00)			225.92 / 7.00				2600															
OKTUE (FAF)				WOWTA/1.30 NM TO FISGO (TF) (FB) (RNP 0.30)			225.82 / 3.21						ADDITIONAL FLIGHT DATA: HOLD SE, RT, 334.93 INBOUND. CHART FAS OBST: 899 STACK 390831N/0943418W CHART FAS OBST: 964 T-L TWR 390908N/0943406W CHART 923 ELEV 390835N/0943339W. WAAS CHANNEL # 40327 REFERENCE PATH ID: W21A CHART CIRCLING ICON. OKTUE TO RW21: 3.39/57. FICTICIOUS THRESHOLD POINT (CFCHT) DO NOT CHART FAC CROSSES RWY C/L EXTENDED 2997 FT FROM THLD. CHART PLANVIEW NOTE: FAC OFFSET 8.41 DEGREES. LTP HAE: 194.2 M													
(SEE FORM 8260-10)																										
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 1E EPOCH YEAR: 2020												
2. PROFILE STARTS AT CEVKO																										
3. FAC: 225.85 FAF: OKTUE DIST FAF TO MAP: 4.51 THLD: 5.00																										
4. MIN. ALT: CEVKO 3700, OKTUE 2600, WOWTA/1.30 NM TO FISGO 1440																										
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: FISGO 3100																										
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	1160	1	416	1160	1	416	1160	1 1/8	416		NA															
LNAV MDA	1260	1	516	1260	1	516	1260	1 3/8	516		NA															
CIRCLING	1380	1	623	1400	1	643	1460	2	703	1540	2 1/2	783														
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/2 CHART NOTE: CIRCLING CAT D NA RWY 3. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT AYOCI ON V502 NORTHEAST BOUND AND FOR ARRIVAL ON ANX AIRWAY RADIALS 235 CW 358. (CONTINUED ON PAGE 2)																										
CITY AND STATE KANSAS CITY, MO				ELEVATION: 757 TDZE: 744 AIRPORT NAME: CHARLES B WHEELER DOWNTOWN				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 2 17 AUGUST 2017					SUP: AMDT: 1C DATED 05/28/2015											



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WOWTA/1.30 NM TO FISGO	FISGO (MAP) (TF) (FO) (RNP 0.30)	225.82 / 1.30	
FISGO (MAP)	1157 MSL (CA)	225.82	
1157 MSL	HOTVA (DF) (FB) (RNP 1.00)		
HOTVA	ZADGU (TF) (FB) (RNP 1.00)	169.00 / 8.00	
ZADGU	ULKEC (TF) (FB) (RNP 1.00)	091.32 / 10.00	
ULKEC	ANX VORTAC (TF) (FO) (RNP 1.00)	053.04 / 17.99	3700

NOTES, (CONT.):

CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: CIRCLING TO RWY 21 NA.

CHART NOTE: STRAIGHT-IN RWY 21 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN AT OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.

CHART NOTE: CIRCLING NA E OF RWY 1/19.

QUALITY
4
CHECKED

CITY AND STATE

KANSAS CITY, MO

ELEVATION: 757

TDZE: 744

AIRPORT NAME:

CHARLES B WHEELER DOWNTOWN

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 21, AMDT 2

17 AUGUST 2017

SUP:

AMDT: 1C

DATED: 05/28/2015

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

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

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KMKC
RUNWAY RW21
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W21A
LTP/FTP LATITUDE 390735.3400N
LTP/FTP LONGITUDE 0943523.9900W
LTP/FTP ELLIPSOIDAL HEIGHT +01942
FPAP LATITUDE 390634.2500N
FPAP LONGITUDE 0943647.3900W
THRESHOLD CROSSING HEIGHT (TCH) 00057.0
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.39
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0000
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 0.0

CRC REMAINDER

8DB90E7E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3
LTP ORTHOMETRIC HEIGHT +02267
FPAP ORTHOMETRIC HEIGHT +02267

CITY AND STATE

KANSAS CITY, MO

ELEVATION: 757

TDZE: 744

AIRPORT NAME:

CHARLES B WHEELER DOWNTOWN

FACILITY
IDENTIFIER:
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 21, AMDT 2
17 AUGUST 2017

SUP:

AMDT: 1C

DATED: 05/28/2015

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.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE			ILS: DA LOC: 5.04 NM AFTER TONII INT/I-JAK 5.24 DME/RADAR OR AT UYIDI/I-JAK 0.22 DME FIX									
FTZ VORTAC (IAF)			ENCOE INT/I-JAK 12.93 DME/RADAR			095.00 / 16.34			5000			CLIMB TO 3000 DIRECT ZUMAY LOM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.									
ENCOE INT/I-JAK 12.93 DME/RADAR (IF) ←			WOODE INT/I-JAK 8.47 DME/RADAR			063.81 / 4.46 (I-JAK)			3400			ALTERNATE MA (DO NOT CHART): CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 351 AND STL VORTAC R-031 TO FASHE INT AND HOLD NE, RT, 211.29 INBOUND.									
WOODE INT/I-JAK 8.47 DME/RADAR			TONII INT/I-JAK 5.24 DME/RADAR			063.81 / 3.23 (I-JAK)			2400			ADDITIONAL FLIGHT DATA: HOLD NE, LT, 240.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE FASHE, RT, 211.29 INBOUND. CHART FAS OBST: 755 TOWER 384256N/0902819W CHART IN PLANVIEW: FASHE. CHART PROFILE NOTE: LOC UNUSABLE 0.2 DME INBOUND.									
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. PROFILE STARTS AT ENCOE INT/I-JAK 12.93 DME/RADAR																					
3. FAC: 063.81 FAF: TONII INT/I-JAK 5.24 DME/RADAR DIST FAF TO MAP: 5.04 THLD: 5.40																					
4. MIN. ALT: ENCOE 5000, WOODE 3400, TONII 2400																					
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1184																					
6. MIN GS INCPT: 2400 GS ALT AT: TONII 2348 OM: - MM: - IM: -																					
7. GS ANGLE: 3.00 TCH: 49.9																					
8. MSA FROM: CSX VOR/DME 090-270 3000, 270-090 2200																					
MAG VAR: 1W 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	751	2400	200	751	2400	200	751	2400	200	751	2400	200	751	2400	200						
S-LOC 06	1020	2400	469	1020	2400	469	1020	5000	469	1020	5000	469	1020	6000	469						
NOTES: CHART NOTE: ADF REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FTZ VORTAC AIRWAY RADIALS 082 CW 095. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 6 CAT E VISIBILITY TO RVR 4000 AND S-LOC 6 CAT C/D/E VISIBILITY TO 1 3/8 SM.																					
CITY AND STATE ST LOUIS, MO			ELEVATION: 618 TDZE: 551 AIRPORT NAME: ST LOUIS LAMBERT INTL			FACILITY IDENTIFIER: I-JAK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 6, AMDT 1F 17 AUGUST 2017					SUP: AMDT: 1E DATED 10/18/2012								

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							
STAAN (IAF)		KARRP (TF) (FB) (RNP 1.00)		083.65 / 5.53				6000		CLIMB TO 3000 ON TRACK 123.17 TO ODITY AND ON TRACK 071.17 TO TOY VORTAC AND HOLD.							
KARRP		AARBY (TF) (FB) (RNP 1.00)		083.70 / 4.21				4000									
AARBY (IF)		FARIS (TF) (FB) (RNP 1.00)		083.75 / 6.91				3400									
RUYON (IAF)		EUBIE (TF) (FB) (RNP 1.00)		122.98 / 5.64				4200									
EUBIE (IF)		FARIS (TF) (FB) (RNP 1.00)		123.04 / 4.43				3400		ADDITIONAL FLIGHT DATA: HOLD W, RT, 083.00 INBOUND. CHART FAS OBST: 741 OL ANT 384548N/0902243W ROUTE TYPE: A,H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S DISTANCE TO THLD FROM 502 HAT: 1.45 NM. CHART AT OR ABOVE 5000 AT HRBEE AND RRIIP CHART AT OR ABOVE 8000, AT OR BELOW 9000 AT VEEGE CHART MANDATORY 7000 AT STAAN CHART AT OR ABOVE 6000 AT RUYON #TCH 581.9 (DO NOT CHART) CHART PLANVIEW NOTE: RADAR REQUIRED.							
(SEE FORM 8260-10)																	
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-17.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 1W EPOCH YEAR: 2020							
2. PROFILE STARTS AT KIRKA																	
3. FAC: 123.15 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																	
4. MIN. ALT: KIRKA 2400, OHROB 1700																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: 1700 GS ALT AT: OHROB 1700 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 53.6 # 34:1 IS NOT CLEAR																	
8. MSA FROM: RW12L 3000																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD							
CATEGORY ==>		A		B		C		D		E							
DH/MDA		VIS		HAT/HAA		DH/MDA		VIS		HAT/HAA		DH/MDA		VIS			
AUTHORIZATION REQUIRED																	
RNP 0.30 DA		1043		6000		502		1043		6000		502					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (3F) OR ABOVE 40C (105F). CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT RUYON : MAX 250 KIAS. CHART SPEED ICON IN PLANVIEW AT STAAN : MAX 250 KIAS. (CONTINUED ON PAGE 2)																	
CITY AND STATE ST LOUIS, MO		ELEVATION: 618 TDZE: 541 AIRPORT NAME: ST LOUIS LAMBERT INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 12L, ORIG-B 17 AUGUST 2017				SUP: AMDT: ORIG-A DATED 10/16/2014					

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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
VEEGE (IAF)	YADDI (TF) (FB) (RNP 1.00)	148.06 / 10.27	5500
YADDI	CORDL (TF) (FB) (RNP 1.00)	148.13 / 5.70	4000
CORDL (IF)	FARIS (TF) (FB) (RNP 1.00)	148.13 / 6.23	3400
RRIPP (IF)	SSAMM (TF) (FB) (RNP 1.00)	302.80 / 2.91	5000
SSAMM	KIRKA (RF) (FB) (RNP 1.00)	(2.61 NM RADIUS CW (CFBPX))/8.21	2400
FARIS	KIRKA (TF) (FB) (RNP 1.00)	123.07 / 2.84	2400
HRBEE (IF)	BUFEE (TF) (FB) (RNP 1.00)	301.32 / 2.89	5000
BUFEE	KIRKA (RF) (FB) (RNP 1.00)	(2.80 NM RADIUS CCW (CFBPV))/8.71	2400
KIRKA	OHROB (TF) (FB) (RNP 1.00)	123.14 / 2.58	1700
OHROB (FAF)	RW12L (MAP) (TF) (FO) (RNP 0.30)	123.15 / 3.51	
RW12L (MAP)	ODITY (TF)	123.17	
ODITY	TOY VORTAC (TF) (FO)	071.17	3000

NOTES, (CONT.):

CHART SPEED ICON IN PLANVIEW AT AARBY : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT KARRP : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT EUBIE : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT VEEGE : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT RRIPP : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT CORDL : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT FARIS : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT SSAMM : MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT HRBEE : MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT BUFEE : MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT KIRKA : MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT OHROB : MAX 165 KIAS.

QUALITY
23
CHECKED

CITY AND STATE ST LOUIS, MO	ELEVATION: 618 AIRPORT NAME: ST LOUIS LAMBERT INTL	TDZE: 541 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 12L, ORIG-B 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				DATED: 10/16/2014

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

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CHART PLANVIEW NOTE ADJACENT TO RRIPP IF: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO HRBEE IF: RF REQUIRED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/4.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 11 AND RWY 12R, EXCEPT FOR ARRIVALS AT RRIPP AND HRBEE. USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

QUALITY
23
CHECKED

CITY AND STATE ST LOUIS, MO	ELEVATION: 618 TDZE: 541 AIRPORT NAME: ST LOUIS LAMBERT INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 12L, ORIG-B 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				DATED: 10/16/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES													MISSED APPROACH								
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LPV: DA LNAV: RW32									
FESKO (IAF)			BUNFI (TF) (FB) (RNP 1.00)			329.48 / 6.05			9100			CLIMB TO 10000 DIRECT EXATY AND ON TRACK 325.71 TO SDO VORTAC AND HOLD.									
BUNFI			DUGDE (TF) (FB) (RNP 1.00)			329.48 / 5.80			7200												
DUGDE (IF)			PUHGI (TF) (FB) (RNP 1.00)			323.65 / 6.01			6300												
PUHGI (FAF)			RW32 (MAP) (TF) (FO) (RNP 0.30)			323.62 / 6.02															
RW32 (MAP)			4554 MSL (CA)			323.62						ADDITIONAL FLIGHT DATA: HOLD S, RT, 016.91 INBOUND. CHART FAS OBST: 4623 TREE 404839N/1174439W CHART 5015 TREE 404827N/1174309W. DISTANCE TO THLD FROM 250 HAT: 0.65 NM. CHART VDP AT 1.67 NM TO RW32* *LNAV ONLY. WAAS CHANNEL # 72702 REFERENCE PATH ID: W32A DISTANCE TO THLD FROM 250 HAT: 0.65NM LTP HAE: 1290.8 M									
(SEE FORM 8260-10)																					
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)													MAG VAR: 16E EPOCH YEAR: 1995								
2. PROFILE STARTS AT DUGDE																					
3. FAC: 323.62 FAF: PUHGI DIST FAF TO MAP: 6.02 THLD: 6.02																					
4. MIN. ALT: DUGDE 7200, PUHGI 6300																					
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																					
6. MIN GS INCPT: 6300 GS ALT AT: PUHGI OM: _____ MM: _____ IM: _____																					
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR																					
8. MSA FROM: RW32 11100																					
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	4554	3/4	250	4554	3/4	250	4554	3/4	250	4554	3/4	250									
LNAV MDA	4880	1	576	4880	1	576	4880	1 1/2	576	4880	1 3/4	576									
CIRCLING	4880	1	572	4880	1	572	4880	1 1/2	572	4880	2	572									
NOTES: CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. ← @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: VDP NA WHEN USING BATTLE MOUNTAIN ALTIMETER SETTING. (CONTINUED ON PAGE 2)																					
CITY AND STATE WINNEMUCCA, NV				ELEVATION: 4308 TDZE: 4304 AIRPORT NAME: WINNEMUCCA MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 17 AUGUST 2017						SUP: AMDT: ORIG DATED 09/28/2006					

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
4554 MSL	EXATY (DF) (FB) (RNP 1.00)		
EXATY	SDO VORTAC (TF) (FO) (RNP 1.00)	325.71 / 30.82	10000



NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BATTLE MOUNTAIN ALTIMETER SETTING AND INCREASE ALLDAS/MDAS 140 FEET.



CITY AND STATE WINNEMUCCA, NV	ELEVATION: 4308 AIRPORT NAME: WINNEMUCCA MUNI	TDZE: 4304	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 17 AUGUST 2017	SUP:
					AMDT: ORIG
					DATED: 09/28/2006

**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	KWMC
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	405316.8000N
LTP/FTP LONGITUDE	1174818.4200W
LTP/FTP ELLIPSOIDAL HEIGHT	+12908
FPAP LATITUDE	405440.3600N
FPAP LONGITUDE	1174859.4000W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 F4D0703F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+13116
FPAP ORTHOMETRIC HEIGHT	+13116

QUALITY
29
CHECKED

CITY AND STATE WINNEMUCCA, NV	ELEVATION: 4308 AIRPORT NAME: WINNEMUCCA MUNI	TDZE: 4304 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 17 AUGUST 2017	SUP:
				AMDT: ORIG
				DATED: 09/28/2006

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		LNAV: YICUP							
BENEE		YODUK (TF) (FB) (RNP 2.00)		066.21 / 18.28				4000		CLIMBING RIGHT TURN TO 3500 DIRECT VEBUC AND HOLD.							
WELTI		WUSAT (TF) (FB) (RNP 2.00)		162.36 / 8.79				4000									
WUSAT (IAF)		VEBUC (NOPT) (TF) (FB) (RNP 1.00)		241.00 / 5.00				3300		ADDITIONAL FLIGHT DATA: FAS OBST: 1129 TREE 423648N/0774712W UDOPE TO RW14: 2.98/40. FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 13.78 DEGREES.							
YODUK (IAF)		VEBUC (NOPT) (TF) (FB) (RNP 1.00)		060.88 / 5.00				3300									
VEBUC (IF/IAF) (SEE FORM 8260-10)		UDECA (TF) (FB) (RNP 1.00)		150.94 / 3.00				2900									
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-16.																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. HOLD NW VEBUC, RT, 150.94 INBOUND, 3300 FT. IN LIEU OF PT (IAF)																	
3. FAC: 150.95 FAF: UDOPE DIST FAF TO MAP: 5.60 THLD: 6.08																	
4. MIN. ALT: VEBUC 3300, UDECA 2900, UDOPE 2600																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR																	
8. MSA FROM: YICUP 3800																	
MAG VAR: 9W EPOCH YEAR: 1975																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		@					
CATEGORY ==>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LNAV MDA	1840	1 1/4	1205	1840	1 1/2	1205	1840	3	1205		NA						
CIRCLING	1940	1 1/4	1280	2120	1 1/2	1460	2120	3	1460		NA						
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BENEE ON V164 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WELTI ON V252 NORTHWEST BOUND. (CONTINUED ON PAGE 2)																	
CITY AND STATE DANSVILLE, NY		ELEVATION: 660 TDZE: 635 AIRPORT NAME: DANSVILLE MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, ORIG-A 17 AUGUST 2017				SUP: AMDT: ORIG DATED 10/27/2005					

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
UDECA	UDOPE (TF) (FB) (RNP 1.00)	150.94 / 3.00	2600
UDOPE (FAF)	YICUP (MAP) (TF) (FO) (RNP 0.30)	150.95 / 5.60	
YICUP (MAP)	1060 MSL (CA)	150.95	
1060 MSL	VEBUC (DF) (FO) (RNP 1.00)		3500

NOTES, (CONT.):

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

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

QUALITY
29
CHECKED

CITY AND STATE

DANSVILLE, NY

ELEVATION: 660

TDZE: 635

AIRPORT NAME:

DANSVILLE MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 14, ORIG-A

17 AUGUST 2017

SUP:

AMDT: ORIG

DATED: 10/27/2005

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LNAV: RW19								
NUYIP (IAF)		INECA (NOPT) (TF) (FB) (RNP 1.00)		102.17 / 5.00		2000		CLIMB TO 2000 DIRECT YUBUD AND HOLD.								
JUMEG (IAF)		INECA (NOPT) (TF) (FB) (RNP 1.00)		282.29 / 5.00		2000										
INECA (IF/IAF)		HOSGI (TF) (FB) (RNP 1.00)		192.23 / 6.10		1700										
HOSGI (FAF)		RW19 (MAP) (TF) (FO) (RNP 0.30)		196.23 / 4.89												
RW19 (MAP)		480 MSL (CA)		192.23				ADDITIONAL FLIGHT DATA: HOLD S, RT, 012.21 INBOUND. CHART FAS OBST: 491 TOWER 335312N/0794605W CHART KINGSTREE AWOS-3, . CHART GAMECOCK MOA C/D, ← CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES								
480 MSL		YUBUD (DF) (FO) (RNP 1.00)				2000										
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD N INECA, RT, 192.23 INBOUND, 2000 FT. IN LIEU OF PT (IAF)																
3. FAC: 192.23 FAF: HOSGI DIST FAF TO MAP: 4.89 THLD: 4.89																
4. MIN. ALT: INECA 2000, HOSGI 1700																
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: 6W EPOCH YEAR: 1990																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																
ALTERNATE: N A X																
CATEGORY ==>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA		820	1	740	820	1	740	820	2	740		NA				
CIRCLING		820	1	740	820	1	740	880	2 1/4	800		NA				
NOTES: CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: USE KINGSTREE ALTIMETER SETTING; IF NOT RECEIVED, USE FLORENCE ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET. ← CHART NOTE: STRAIGHT-IN RWY 19 NA AT NIGHT.																
CITY AND STATE LAKE CITY, SC		ELEVATION: 80 TDZE: 80 AIRPORT NAME: LAKE CITY MUNI CJ EVANS FIELD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-A 17 AUGUST 2017						SUP: AMDT: ORIG DATED 03/15/2007				

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

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

TAA

	FROM	TO	ALT
1.	102/30 CW 223/30 (NOPT)	INECA (IF/IAF) (FB)	2000
	223/25 CW 282/25	INECA (IF/IAF) (FB)	2000
2.	223/30 CW 282/30 (NOPT)	223/25 CW 282/25	3100
3.	282/30 CW 012/30	JUMEG (IAF) (FB)	2000
4.	012/30 CW 102/30	012/20 CW 102/20	2300
5.	012/20 CW 102/20	NUYIP (IAF) (FB)	2000

QUALITY
30
CHECKED

CITY AND STATE LAKE CITY, SC	ELEVATION: 80 AIRPORT NAME: LAKE CITY MUNI CJ EVANS FIELD	TDZE: 80	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-A 17 AUGUST 2017	SUP:
					AMDT: ORIG
					DATED: 03/15/2007

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LNAV: RW15							
ZOTBY (IAF)		YISRU (NOPT) (TF) (FB) (RNP 1.00)		138.89 / 21.26			3400		CLIMB TO 3400 DIRECT GIZBU AND HOLD.							
OBITT (IAF)		YISRU (NOPT) (TF) (FB) (RNP 1.00)		201.80 / 19.27			3400									
YISRU (IF/IAF)		GANAC (TF) (FB) (RNP 1.00)		149.67 / 6.10			3000		ADDITIONAL FLIGHT DATA: HOLD SE, RT, 329.82 INBOUND. CHART FAS OBST: 1859 TREE 440152N/0970547W GANAC TO RW15: 3.00/32.							
GANAC (FAF)		OVEPE/2.00 NM TO RW15 (TF) (FB) (RNP 0.30)		149.71 / 1.92												
OVEPE/2.00 NM TO RW15 (SEE FORM 8260-10) THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-16.		RW15 (MAP) (TF) (FO) (RNP 0.30)		149.71 / 2.00												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD NW YISRU, RT, 149.67 INBOUND, 3400 FT. IN LIEU OF PT (IAF)																
3. FAC: 149.71 FAF: GANAC DIST FAF TO MAP: 3.92 THLD: 3.92																
4. MIN. ALT: YISRU 3400, GANAC 3000, OVEPE/2.00 NM TO RW15 2380																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR																
8. MSA FROM: RW15 4100																
MAG VAR: 4E EPOCH YEAR: 2010																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @				
CATEGORY =====>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA		2120	1	402	2120	1	402	2120	1 1/8	402	2120	1 1/8	402			
CIRCLING		2180	1	462	2180	1	462	2180	1 1/2	462	2280	2	562			
NOTES: CHART NOTE: CIRCLING NA TO RWYS 3 AND 21. @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZOTBY ON V170 NORTHWEST BOUND. (CONTINUED ON PAGE 2)																
CITY AND STATE MADISON, SD		ELEVATION: 1718 TDZE: 1718 AIRPORT NAME: MADISON MUNI			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, ORIG-B 17 AUGUST 2017					SUP: AMDT: ORIG-A DATED 02/05/2015				

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

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

TERMINAL ROUTES, (CONT.):

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

NOTES, (CONT.):

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

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

CITY AND STATE
MADISON, SD

ELEVATION: 1718 TDZE: 1718
AIRPORT NAME:
MADISON MUNI

FACILITY
IDENTIFIER:
RNAV

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

SUP: 31
AMDT: ORIG-A
DATED: 02/05/2015

QUALITY
31
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LP: RW16 LNAV: RW16						
CWK VORTAC		JESRO (TF) (FB) (RNP 2.00)		294.10 / 24.10				3000		CLIMBING LEFT TURN TO 3000 DIRECT DWELT AND HOLD.						
AMUSE		CIMOM (TF) (FB) (RNP 2.00)		056.37 / 9.36				3100								
JESRO (IAF)		DWELT (NOPT) (TF) (FB) (RNP 1.00)		254.81 / 5.20				3000		ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1009 TREE 302153N/0975951W CHART PROFILE NOTE: VISUAL SEGMENT-OBSTACLES. WAAS CHANNEL # 42531 REFERENCE PATH ID: W16A CHART LAGO VISTA AWOS-3 LTP HAE: 244.1 M						
CIMOM (IAF)		DWELT (NOPT) (TF) (FB) (RNP 1.00)		074.71 / 5.20				3000								
DWELT (IF/IAF) (SEE FORM 8260-10)		KEMPP (TF) (FB) (RNP 1.00)		164.76 / 5.70				2800								
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 17-15.																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD N DWELT, RT, 164.76 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																
3. FAC: 164.77 FAF: KEMPP DIST FAF TO MAP: 5.89 THLD: 5.89																
4. MIN. ALT: DWELT 3000, KEMPP 2800, CEPIR/1.90 NM TO RW16 1520																
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: RW16 4100																
MAG VAR: 4E EPOCH YEAR: 2015																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X						
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LP MDA	1340	1	437	1340	1	437		NA			NA					
LNAV MDA	1360	1	457	1360	1	457		NA			NA					
CIRCLING	1620	1	711	1960	1 1/2	1051		NA			NA					
NOTES: CHART NOTE: RWY 16, 34 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT. USE LAGO VISTA ALTIMETER SETTING; WHEN NOT RECEIVED, USE AUSTIN-BERGSTROM INTL ALTIMETER SETTING AND (CONTINUED ON PAGE 2)																
CITY AND STATE LAKEWAY, TX		ELEVATION: 909 TDZE: 903 AIRPORT NAME: LAKEWAY AIRPARK				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1B 17 AUGUST 2017				SUP: AMDT: 1A DATED 04/02/2015				



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
KEMPP (FAF)	CEPIR/1.90 NM TO RW16 (TF) (FB) (RNP 0.30)	164.77 / 3.99	
CEPIR/1.90 NM TO RW16	RW16 (MAP) (TF) (FO) (RNP 0.30)	164.78 / 1.90	
RW16 (MAP)	1309 MSL (CA)	164.78	
1309 MSL	DWELT (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

INCREASE ALL MDA 40 FEET.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CWK VORTAC AIRWAY RADIALS 222 CW 004.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AMUSE ON V163 SOUTHBOUND.

QUALITY
30
CHECKED

CITY AND STATE

LAKEWAY, TX

ELEVATION: 909

TDZE: 903

AIRPORT NAME:

LAKEWAY AIRPARK

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

DATED: 04/02/2015

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

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

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER 3R9
RUNWAY RW16
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W16A
LTP/FTP LATITUDE 302138.4600N
LTP/FTP LONGITUDE 0975942.7100W
LTP/FTP ELLIPSOIDAL HEIGHT +02441
FPAP LATITUDE 302010.8565N
FPAP LONGITUDE 0975922.6760W
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 1792
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 0.0

CRC REMAINDER

A7093053 ←

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K4
LTP ORTHOMETRIC HEIGHT +02693
FPAP ORTHOMETRIC HEIGHT +02693

QUALITY
30
CHECKED

CITY AND STATE

LAKEWAY, TX

ELEVATION: 909

TDZE: 903

AIRPORT NAME:

LAKEWAY AIRPARK

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

DATED: 04/02/2015

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31145](#); Amdt. No. [3757](#)]

**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 [July 14, 2017](#)

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

John S. Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

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

Part 97—Standard Instrument Approach Procedures

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

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

2. Part 97 is amended to read as follows:

Effective 17 August 2017

Akiak, AK, Akiak, RNAV (GPS) RWY 3, Orig-B
 Akiak, AK, Akiak, RNAV (GPS) RWY 21, Orig-B
 Talkeetna, AK, Talkeetna, NDB RWY 1, Amdt 4
 Talkeetna, AK, Talkeetna, RNAV (GPS) RWY 1, Amdt 1
 Talkeetna, AK, Talkeetna, RNAV (GPS) RWY 19, Orig
 Talkeetna, AK, Talkeetna, Takeoff Minimums and Obstacle DP, Amdt 3
 Talkeetna, AK, Talkeetna, VOR RWY 1, Amdt 3
 Talkeetna, AK, Talkeetna, VOR-A, Amdt 11
 Anniston, AL, Anniston Rgnl, ILS Y OR LOC Y RWY 5, Orig
 Anniston, AL, Anniston Rgnl, ILS Z OR LOC Z RWY 5, Amdt 4
 Anniston, AL, Anniston Rgnl, NDB RWY 5, Amdt 4C, CANCELED
 Anniston, AL, Anniston Rgnl, RNAV (GPS) RWY 5, Amdt 2
 Anniston, AL, Anniston Rgnl, RNAV (GPS) RWY 23, Amdt 1
 Anniston, AL, Anniston Rgnl, RNAV (GPS) Y RWY 23, Amdt 1B, CANCELED
 Birmingham, AL, Birmingham-Shuttlesworth Intl, ILS OR LOC RWY 24, ILS RWY 24 (SA CAT II), Amdt 4
 Birmingham, AL, Birmingham-Shuttlesworth Intl, RNAV (GPS) Y RWY 24, Amdt 4
 Birmingham, AL, Birmingham-Shuttlesworth Intl, RNAV (RNP) Z RWY 24, Amdt 2
 Gadsden, AL, Northeast Alabama Rgnl, VOR RWY 6, Amdt 14
 Byron, CA, Byron, RNAV (GPS) RWY 30, Amdt 1
 Byron, CA, Byron, Takeoff Minimums and Obstacle DP, Amdt 2
 Los Angeles, CA, Los Angeles Intl, Takeoff Minimums and Obstacle DP, Amdt 14
 Sacramento, CA, Sacramento Intl, ILS OR LOC RWY 34L, Amdt 7E
 Vacaville, CA, Nut Tree, RNAV (GPS) Y RWY 20, Orig-A, CANCELED
 Vacaville, CA, Nut Tree, VOR-A, Amdt 6
 Colorado Springs, CO, City of Colorado Springs Muni, ILS OR LOC RWY 17L, ILS RWY 17L (SA CAT I), ILS RWY 17L (CAT II), Amdt 3A
 Colorado Springs, CO, City of Colorado Springs Muni, ILS OR LOC RWY 35L, Amdt 38A
 Colorado Springs, CO, City of Colorado Springs Muni, ILS OR LOC RWY 35R, Amdt 2A
 Colorado Springs, CO, City of Colorado Springs Muni, NDB RWY 35L, Amdt 27A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (GPS) RWY 31, Amdt 2A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (GPS) Y RWY 17L, Amdt 3A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (GPS) Y RWY 17R, Amdt 3A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (GPS) Y RWY 35L, Amdt 1A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (GPS) Y RWY 35R, Amdt 4A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (RNP) Z RWY 17L, Amdt 2A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (RNP) Z RWY 17R, Amdt 1A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (RNP) Z RWY 35L, Amdt 1A
 Colorado Springs, CO, City of Colorado Springs Muni, RNAV (RNP) Z RWY 35R, Amdt 1A
 Denver, CO, Rocky Mountain Metropolitan, RNAV (GPS) RWY 12L, Orig
 Danbury, CT, Danbury Muni, GPS RWY 8, Amdt 1A, CANCELED

Danbury, CT, Danbury Muni, RNAV (GPS) RWY 8, Orig
 Danbury, CT, Danbury Muni, RNAV (GPS)-A, Orig
 Danbury, CT, Danbury Muni, VOR OR GPS-A, Amdt 9B, CANCELED
 Miami, FL, Miami Intl, ILS OR LOC RWY 27, Amdt 27
 Miami, FL, Miami Intl, ILS OR LOC RWY 30, Amdt 1B
 Savannah, GA, Savannah/Hilton Head Intl, ILS OR LOC RWY 10, ILS RWY 10 (SA CAT I), ILS RWY 10 (SA CAT II), Amdt 28
 Muscatine, IA, Muscatine Muni, Takeoff Minimums and Obstacle DP, Amdt 3
 Burley, ID, Burley Muni, VOR-A, Amdt 5
 Marion, IL, Veterans Airport of Southern Illinois, ILS OR LOC RWY 20, Amdt 12B
 Marion, IL, Veterans Airport of Southern Illinois, NDB RWY 20, Amdt 10D
 Marion, IL, Veterans Airport of Southern Illinois, RNAV (GPS) RWY 2, Amdt 1C
 Marion, IL, Veterans Airport of Southern Illinois, RNAV (GPS) RWY 20, Amdt 1C
 Marion, IL, Veterans Airport of Southern Illinois, Takeoff Minimums and Obstacle DP, Amdt 1
 Marion, IL, Veterans Airport of Southern Illinois, VOR RWY 2, Amdt 13E
 Marion, IL, Veterans Airport of Southern Illinois, VOR RWY 20, Amdt 17D
 Sheridan, IN, Sheridan, VOR-A, Amdt 6A
 Abilene, KS, Abilene Muni, RNAV (GPS) RWY 17, Amdt 1B
 Abilene, KS, Abilene Muni, RNAV (GPS) RWY 35, Amdt 1B
 Abilene, KS, Abilene Muni, VOR-A, Amdt 3A
 Dodge City, KS, Dodge City Rgnl, ILS OR LOC RWY 14, Amdt 3A
 Dodge City, KS, Dodge City Rgnl, RNAV (GPS) RWY 14, Amdt 1B
 Dodge City, KS, Dodge City Rgnl, VOR RWY 14, Amdt 19A
 Leonardtown, MD, St Mary's County Rgnl, RNAV (GPS) RWY 11, Amdt 1
 Leonardtown, MD, St Mary's County Rgnl, RNAV (GPS) RWY 29, Amdt 1
 Aitkin, MN, Aitkin Muni-Steve Kurtz Field, NDB RWY 16, Amdt 5C
 Aitkin, MN, Aitkin Muni-Steve Kurtz Field, RNAV (GPS) RWY 16, Amdt 1
 Aitkin, MN, Aitkin Muni-Steve Kurtz Field, RNAV (GPS) RWY 34, Amdt 1
 Pine River, MN, Pine River Rgnl, NDB RWY 34, Amdt 1A
 St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 12R, Amdt 22B
 St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 30L, Amdt 12B
 St Louis, MO, St Louis Lambert Intl, RNAV (GPS) Y RWY 12R, Amdt 1C
 St Louis, MO, St Louis Lambert Intl, RNAV (GPS) Y RWY 30L, Amdt 1C
 St Louis, MO, St Louis Lambert Intl, RNAV (RNP) Z RWY 12R, Orig-B
 St Louis, MO, St Louis Lambert Intl, RNAV (RNP) Z RWY 30L, Orig-B
 Great Falls, MT, Great Falls Intl, ILS OR LOC RWY 3, ILS RWY 3 (SA CAT I), ILS RWY 3 (CAT II), ILS RWY 3 (CAT III), Amdt 5C
 Great Falls, MT, Great Falls Intl, NDB RWY 34, Amdt 16C, CANCELED
 Great Falls, MT, Great Falls Intl, RNAV (GPS) RWY 17, Orig
 Great Falls, MT, Great Falls Intl, RNAV (GPS) RWY 35, Orig
 Great Falls, MT, Great Falls Intl, RNAV (GPS) Y RWY 3, Amdt 3B
 Great Falls, MT, Great Falls Intl, RNAV (GPS) Y RWY 21, Orig-C
 Great Falls, MT, Great Falls Intl, RNAV (RNP) Z RWY 3, Orig-C
 Great Falls, MT, Great Falls Intl, RNAV (RNP) Z RWY 21, Orig-D
 Great Falls, MT, Great Falls Intl, Takeoff Minimums and Obstacle DP, Amdt 1

Great Falls, MT, Great Falls Intl, VOR RWY 21, Amdt 10
 Kalispell, MT, Glacier Park Intl, RNAV (GPS) Z RWY 2, Amdt 3
 North Wilkesboro, NC, Wilkes County, ILS Y OR LOC Y RWY 1, Amdt 1
 North Wilkesboro, NC, Wilkes County, ILS Z OR LOC Z RWY 1, Orig
 North Wilkesboro, NC, Wilkes County, RNAV (GPS) RWY 1, Amdt 1
 North Wilkesboro, NC, Wilkes County, RNAV (GPS) RWY 19, Orig
 North Wilkesboro, NC, Wilkes County, Takeoff Minimums and Obstacle DP, Amdt 1
 Manchester, NH, Manchester, ILS OR LOC RWY 6, Amdt 2B
 Manchester, NH, Manchester, ILS OR LOC RWY 35, ILS RWY 35 (SA CAT I), ILS RWY 35 (CAT II),
 ILS RWY 35 (CAT III), Amdt 2B
 Manchester, NH, Manchester, ILS OR LOC/DME RWY 17, Amdt 2C
 Manchester, NH, Manchester, RNAV (GPS) RWY 6, Amdt 2B
 Manchester, NH, Manchester, RNAV (GPS) RWY 24, Amdt 1B
 Manchester, NH, Manchester, RNAV (GPS) Y RWY 17, Amdt 1B
 Manchester, NH, Manchester, RNAV (GPS) Y RWY 35, Amdt 1B
 Manchester, NH, Manchester, RNAV (RNP) Z RWY 17, Amdt 1A
 Manchester, NH, Manchester, RNAV (RNP) Z RWY 35, Orig-A
 Las Vegas, NV, Mc Carran Intl, ILS OR LOC RWY 1L, Amdt 2
 Las Vegas, NV, Mc Carran Intl, ILS OR LOC RWY 26L, Amdt 6
 Las Vegas, NV, Mc Carran Intl, ILS OR LOC RWY 26R, Amdt 19
 Las Vegas, NV, Mc Carran Intl, RNAV (GPS) RWY 19L, Amdt 2
 Las Vegas, NV, Mc Carran Intl, RNAV (GPS) RWY 19R, Amdt 2
 Las Vegas, NV, Mc Carran Intl, Takeoff Minimums and Obstacle DP, Amdt 8
 Las Vegas, NV, Mc Carran Intl, VOR RWY 26L/R, Amdt 4
 New York, NY, John F Kennedy Intl, ILS OR LOC RWY 4R, ILS RWY 4R (CAT II), ILS RWY 4R
 (CAT III), Amdt 30
 New York, NY, John F Kennedy Intl, RNAV (GPS) Y RWY 4L, Amdt 3
 New York, NY, John F Kennedy Intl, RNAV (GPS) Y RWY 4R, Amdt 2
 New York, NY, John F Kennedy Intl, RNAV (RNP) Z RWY 4L, Amdt 2
 New York, NY, John F Kennedy Intl, RNAV (RNP) Z RWY 4R, Amdt 1
 Majuro Atoll, RM, Marshall Islands Intl, RNAV (GPS) RWY 7, Orig-D
 Majuro Atoll, RM, Marshall Islands Intl, RNAV (GPS) RWY 25, Orig-D
 Hartsville, SC, Hartsville Rgnl, NDB RWY 21, Amdt 1B, CANCELED
 Hartsville, SC, Hartsville Rgnl, RNAV (GPS) RWY 3, Amdt 1
 Hartsville, SC, Hartsville Rgnl, RNAV (GPS) RWY 21, Amdt 1
 Hartsville, SC, Hartsville Rgnl, Takeoff Minimums and Obstacle DP, Amdt 1
 Hartsville, SC, Hartsville Rgnl, VOR-A, Orig
 Myrtle Beach, SC, Myrtle Beach Intl, ILS OR LOC RWY 18, ILS RWY 18 (SA CAT I), ILS RWY 18
 (SA CAT II), Amdt 5
 Bristol/Johnson/Kingsport, TN, Tri-Cities, RNAV (GPS) RWY 9, Amdt 1
 Bristol/Johnson/Kingsport, TN, Tri-Cities, RNAV (GPS) RWY 27, Amdt 1
 Wheeler, TX, Wheeler Muni, RNAV (GPS)-A, Amdt 1
 Wheeler, TX, Wheeler Muni, RNAV (GPS)-B, Amdt 1
 Salt Lake City, UT, Salt Lake City Intl, ILS OR LOC RWY 16L, ILS RWY 16L (CAT II), ILS RWY 16L
 (CAT III), Amdt 3B

Salt Lake City, UT, Salt Lake City Intl, ILS OR LOC RWY 16R, ILS RWY 16R (SA CAT I), ILS RWY 16R (CAT II), ILS RWY 16R (CAT III), Amdt 3C
 Salt Lake City, UT, Salt Lake City Intl, ILS OR LOC RWY 17, ILS RWY 17 (SA CAT I), ILS RWY 17 (SA CAT II), Amdt 14A
 Salt Lake City, UT, Salt Lake City Intl, ILS OR LOC RWY 34L, ILS RWY 34L (SA CAT I), ILS RWY 34L (CAT II), ILS RWY 34L (CAT III), Amdt 3B
 Salt Lake City, UT, Salt Lake City Intl, ILS OR LOC RWY 34R, ILS RWY 34R (SA CAT I), ILS RWY 34R (CAT II), ILS RWY 34R (CAT III), Amdt 4B
 Salt Lake City, UT, Salt Lake City Intl, LDA RWY 35, Orig-C
 Salt Lake City, UT, Salt Lake City Intl, RNAV (GPS) RWY 16L, Amdt 1A
 Salt Lake City, UT, Salt Lake City Intl, RNAV (GPS) RWY 16R, Amdt 1A
 Salt Lake City, UT, Salt Lake City Intl, RNAV (GPS) RWY 17, Amdt 2A
 Salt Lake City, UT, Salt Lake City Intl, RNAV (GPS) RWY 34L, Amdt 1B
 Salt Lake City, UT, Salt Lake City Intl, RNAV (GPS) RWY 34R, Amdt 1B
 Salt Lake City, UT, Salt Lake City Intl, RNAV (GPS) RWY 35, Amdt 3
 Wakefield, VA, Wakefield Muni, NDB RWY 20, Amdt 5
 Wakefield, VA, Wakefield Muni, RNAV (GPS) RWY 20, Amdt 1
 Wakefield, VA, Wakefield Muni, Takeoff Minimums and Obstacle DP, Amdt 1
 Auburn, WA, Auburn Muni, RNAV (GPS)-A, Amdt 1
 Seattle, WA, Boeing Field/King County Intl, ILS OR LOC RWY 14R, Amdt 31
 Seattle, WA, Boeing Field/King County Intl, LOC/DME RWY 13R, Amdt 2A, CANCELED
 Seattle, WA, Boeing Field/King County Intl, RNAV (GPS) Y RWY 14R, Amdt 1

RESCINDED: On July 13, 2017 (82 FR 32230), the FAA published an Amendment in Docket No. 31141, Amdt No. 3753 to Part 97 of the Federal Aviation Regulations under section 97.23, 97.25, 97.29 and 97.33, the following entries for Livermore, CA, Orlando, FL, and Muscatine, IA, effective August 17, 2017, and are hereby rescinded in their entirety:

Livermore, CA, Livermore Muni, ILS RWY 25R, Amdt 8
 Livermore, CA, Livermore Muni, LOC RWY 25R, Orig
 Orlando, FL, Orlando Sanford Intl, ILS OR LOC RWY 27R, Amdt 4
 Orlando, FL, Orlando Sanford Intl, RNAV (GPS) RWY 27R, Amdt 4
 Muscatine, IA, Muscatine Muni, VOR RWY 6, Orig-D, CANCELED

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: RW03						
DOLPE (IAF)		WATNU (TF) (FB) (RNP 1.00)		030.67 / 5.08			2000		CLIMB TO 2000 DIRECT CETIK AND HOLD.						
HOLIN (IAF)		WATNU (TF) (FB) (RNP 1.00)		120.65 / 6.29			2000								
WATNU (IF)		PAYKO (TF) (FB) (RNP 1.00)		030.78 / 6.00			1700								
PAYKO (FAF)		RW03 (MAP) (TF) (FO) (RNP 0.30)		030.91 / 5.04					ADDITIONAL FLIGHT DATA: HOLD NE, RT, 211.27 INBOUND. CHART FAS OBST: 59 TREE 605034N/1611933W CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES CHART BETHEL ASOS-3						
RW03 (MAP)		440 MSL (CA)		030.91											
440 MSL		CETIK (DF) (FO) (RNP 1.00)					2000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 16E EPOCH YEAR: 2005					
2. PROFILE STARTS AT WATNU															
3. FAC: 030.91 FAF: PAYKO DIST FAF TO MAP: 5.04 THLD: 5.04															
4. MIN. ALT: WATNU 2000, PAYKO 1700															
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: RW03 3500															
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	420	1	380	420	1	380		NA			NA				
CIRCLING	480	1	440	500	1	460		NA			NA				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DOLPE ON V506 SOUTHEAST BOUND, AND FOR ARRIVALS AT HOLIN ON V480, T222 SOUTHWEST BOUND. CHART NOTE: USE BETHEL ALTIMETER SETTING															
CITY AND STATE AKIAK, AK		ELEVATION: 40 TDZE: 40 AIRPORT NAME: AKIAK		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, ORIG-B 17 AUGUST 2017				SUP: AMDT: ORIG-A DATED 11/13/2014					

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		LNAV: RW21 CLIMB TO 2000 DIRECT WATNU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 030.78 INBOUND. CHART FAS OBST: 59 TREE 605723N/1610810W CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES CHART BETHEL ASOS 135.45									
CABOT (IAF)		CETIK (TF) (FB) (RNP 1.00)		192.71 / 11.63				2000											
VIDDA (IAF)		CETIK (TF) (FB) (RNP 1.00)		287.86 / 16.57				2000											
CETIK (IF)		FOSAV (TF) (FB) (RNP 1.00)		211.27 / 6.00				1700											
FOSAV (FAF)		RW21 (MAP) (TF) (FO) (RNP 0.30)		211.14 / 5.04															
RW21 (MAP)		440 MSL (CA)		211.14															
440 MSL		WATNU (DF) (FO) (RNP 1.00)						2000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT CETIK 3. FAC: <u>211.14</u> FAF: <u>FOSAV</u> DIST FAF TO MAP: <u>5.04</u> THLD: <u>5.04</u> 4. MIN. ALT: CETIK 2000, FOSAV 1700 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: RW21 3600																MAG VAR: 16E		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				
LNAV MDA	420	1	380	420	1	380		NA			NA								
CIRCLING	480	1	440	500	1	460		NA			NA								
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CABOT ON V480, T222 NORTHEAST BOUND, AND FOR ARRIVALS AT VIDDA ON V319, T269 NORTHWEST BOUND. CHART NOTE: USE BETHEL ALTIMETER SETTING.																			
CITY AND STATE		ELEVATION: 40 TDZE: 40		AIRPORT NAME:		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
AKIAK, AK				AKIAK				RNAV (GPS) RWY 21, ORIG-B 17 AUGUST 2017				AMDT: ORIG-A							
												DATED 11/13/2014							



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: PEE NDB						
URTOW/TKA 13.98 DME		PEE NDB			340.39 / 15.92			4100		CLIMB TO 1800 ON 355.78 BEARING FROM PEE NDB, THEN CLIMBING LEFT TURN TO 2900 DIRECT PEE NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2900.						
										ADDITIONAL FLIGHT DATA: FAS OBST: 710 AAO 621442N/1500524W CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 3318 FT FROM THLD.						
1. PT <u>R</u> SIDE OF COURSE <u>175.78</u> OUTBOUND <u>2800</u> FT WITHIN <u>10</u> MILES OF <u>PEE NDB</u> (IAF)																
2.																
3. FAC <u>355.78</u> FAF _____ DIST FAF TO MAP _____ THLD _____																
4. MIN. ALT _____																
8. MSA FROM: <u>PEE NDB 7700</u>										MAG VAR: <u>16E</u>			EPOCH YEAR: <u>2020</u>			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: <u>N A</u>		@ _____				
CATEGORY =====>		A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-01	1300	1 1/4	937	1300	1 1/4	937	1300	2 1/2	937	1300	2 1/2	937				
CIRCLING	1300	1 1/4	935	1300	1 1/4	935	1300	2 3/4	935	1300	3	935				
NOTES:																
CHART NOTE: CIRCLING NA EAST OF RWY 1-19. CHART PLANVIEW NOTE: DME REQUIRED CHART NOTE: STRAIGHT-IN RWY 1 NA AT NIGHT, CIRCLING RWY 1 NA AT NIGHT. CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.										@ CAT A, B 1000-2, CAT C 1000-2 3/4, CAT D 1000-3						
CITY AND STATE TALKEETNA, AK		ELEVATION: 365 TDZE: 363 AIRPORT NAME: TALKEETNA			FACILITY IDENTIFIER: PEE		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 1, AMDT 4 17 AUGUST 2017				SUP NDB RWY 36		AMDT 3A		DATE 07/24/2014	



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: RW01 CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2900 DIRECT JOZPO AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 665 TREE 621842N/1500518W DISTANCE TO THLD FROM 363 HAT: 1.02 NM. CHART VDP AT 1.69 NM TO RW01* *LNAV ONLY. WAAS CHANNEL # 65940 REFERENCE PATH ID: W01A CHART CIRCLING ICON. LTP HAE: 118.4 M										
EGRAM	FOSXI (TF) (FB) (RNP 2.00)			179.25 / 23.63			6000												
FOSXI	JOZPO (TF) (FO) (RNP 2.00)			179.79 / 15.98			2900												
URTOW (IAF)	JOZPO (NOPT) (TF) (FB) (RNP 1.00)			294.70 / 7.99			2900												
JOZPO (IF/IAF)	EZZOL (TF) (FB) (RNP 1.00)			010.86 / 6.04			2000												
EZZOL (FAF)	RW01 (MAP) (TF) (FO) (RNP 0.30)			011.00 / 5.02															
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S JOZPO, RT, 010.86 INBOUND, 2900 FT. IN LIEU OF PT (IAF) 3. FAC: 011.00 FAF: EZZOL DIST FAF TO MAP: 5.02 THLD: 5.02 4. MIN. ALT: JOZPO 2900, EZZOL 2000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: EZZOL 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR 8. MSA FROM: RW01 7900																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	726	1 1/4	363	726	1 1/4	363	726	1 1/4	363	726	1 1/4	363							
LNAV/VNAV DA	922	2	559	922	2	559	922	2	559	922	2	559							
LNAV MDA	920	1	557	920	1	557	920	1 5/8	557	920	1 5/8	557							
CIRCLING	960	1	595	960	1	595	1040	2	675	1200	2 3/4	835							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). @ CAT D 900-2 3/4 CHART NOTE: CIRCLING NA EAST OF RWY 1-19. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 365 TDZE: 363		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) RWY 36									
TALKEETNA, AK		AIRPORT NAME: TALKEETNA				RNAV (GPS) RWY 1, AMDT 1 17 AUGUST 2017				AMDT: ORIG									
										DATED 06/03/2010									



**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, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RW01 (MAP)	800 MSL (CA)	011.00	800
800 MSL	JOZPO (DF) (FO) (RNP 1.00)		2900

NOTES, (CONT.):

CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

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

QUALITY
22
CHECKED

CITY AND STATE

TALKEETNA, AK

ELEVATION: 365

TDZE: 363

AIRPORT NAME:

TALKEETNA

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 1, AMDT 1

17 AUGUST 2017

SUP: **RNAV (GPS) RWY 36**AMDT: **ORIG**DATED: **06/03/2010**

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PATK
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	621901.6005N
LTP/FTP LONGITUDE	1500550.6370W
LTP/FTP ELLIPSOIDAL HEIGHT	+01184
FPAP LATITUDE	622020.6935N
FPAP LONGITUDE	1500423.6695W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1688
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 E03112A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+01084
FPAP ORTHOMETRIC HEIGHT	+01084

QUALITY
22
CHECKED

CITY AND STATE TALKEETNA, AK	ELEVATION: 365 AIRPORT NAME: TALKEETNA	TDZE: 363 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 17 AUGUST 2017	SUP: RNAV (GPS) RWY 36
				AMDT: ORIG
				DATED: 06/03/2010

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																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LP: WUVBA LNAV: WUVBA												
POLYC				EHZEG (TF) (FB) (RNP 2.00)				160.36 / 33.95				11100		CLIMB TO 3000 DIRECT IXIQE AND ON TRACK 146.02 TO URTOW AND HOLD.												
EHZEG				EGRAM (TF) (FB) (RNP 2.00)				160.43 / 10.00				8200														
URTOW				JINAG (TF) (FO) (RNP 2.00)				339.82 / 27.84				4400														
EGRAM (IAF)				HIDOP (NOPT) (TF) (FB) (RNP 1.00)				186.70 / 8.43				4800														
HIDOP (SEE FORM 8260-10)				JINAG (TF) (FB) (RNP 1.00)				186.60 / 8.50				4400		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 146.08 INBOUND. CHART ARRIVAL HOLDING AT EGRAM: HOLD N, RT, 175.11 INBOUND, 8400. CHART FAS OBST: 603 TREE 621917N/1500419W CHART 516 TREE 622106N/1500359W. 804 AAO 622233N/1500354W 975 AAO 622530N/1500106W WAAS CHANNEL # 77840 REFERENCE PATH ID: W19A CHART CIRCLING ICON. ZENIB TO RW19: 3.00/35. FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 19.81 DEGREES. FICTITIOUS THRESHOLD POINT (CFCHR) DO NOT CHART. LTP HAE: 121.1 M												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	MAG VAR: 16E EPOCH YEAR: 2020									
2. HOLD NW JINAG, RT, 145.91 INBOUND, 4400 FT. IN LIEU OF PT (IAF)																										
3. FAC: 171.30 FAF: ZENIB DIST FAF TO MAP: 5.18 THLD: 5.65																										
4. MIN. ALT: JINAG 4400, ZENIB 2200, VOYUY/2.50 NM TO WUVBA 1340																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR																										
8. MSA FROM: RW19 7900																										
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	780	1	415	780	1	415	780	1 1/8	415	780	1 1/8	415														
LNAV MDA	860	1	495	860	1	495	860	1 3/8	495	860	1 3/8	495														
CIRCLING	860	1	495	860	1	495	1040	2	675	1200	2 3/4	835														
NOTES: CHART NOTE: CIRCLING NA EAST OF RWY 1-19. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: RW19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: STRAIGHT-IN RWY 19 NA AT NIGHT, CIRCLING RWY 19 NA AT NIGHT.																										
CITY AND STATE TALKEETNA, AK				ELEVATION: 365 TDZE: 365 AIRPORT NAME: TALKEETNA				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG 17 AUGUST 2017						SUP: AMDT: NONE DATED										

QUALITY
22
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
JINAG (IF/IAF)	ZENIB (TF) (FB) (RNP 1.00)	145.91 / 6.95	2200
ZENIB (FAF)	VOYUY/2.50 NM TO WUVBA (TF) (FB) (RNP 0.30)	171.30 / 2.68	
VOYUY/2.50 NM TO WUVBA	WUVBA (MAP) (TF) (FO) (RNP 0.30)	171.30 / 2.50	
WUVBA (MAP)	765 MSL (CA)	171.30	
765 MSL	IXIQE (DF) (FB) (RNP 1.00)		
IXIQE	URTOW (TF) (FO) (RNP 1.00)	146.02 / 6.02	3000

QUALITY
22
CHECKED

CITY AND STATE

TALKEETNA, AK

ELEVATION: 365

TDZE: 365

AIRPORT NAME:

TALKEETNA

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 19, ORIG

17 AUGUST 2017

SUP:

AMDT: NONE

DATED:

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PATK
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	621930.8910N
LTP/FTP LONGITUDE	1500455.3970W
LTP/FTP ELLIPSOIDAL HEIGHT	+01211
FPAP LATITUDE	621802.8850N
FPAP LONGITUDE	1500519.4865W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 6FA2EB84

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+01111
FPAP ORTHOMETRIC HEIGHT	+01111

QUALITY
22
CHECKED

CITY AND STATE TALKEETNA, AK	ELEVATION: 365 TDZE: 365 AIRPORT NAME: TALKEETNA	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG 17 AUGUST 2017	SUP:
				AMDT: NONE
				DATED:

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

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

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
TALKEETNA, AK	TALKEETNA	17 AUGUST 2017	3

TAKEOFF MINIMUMS:

RWY 1, STANDARD

RWY 19, 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 600 FT PER NM TO 600

TEXTUAL DEPARTURE PROCEDURES:

RWY 1 - CLIMB HEADING 011.07 TO 1000 THEN CLIMBING LEFT TURN DIRECT TKA VOR/DME, THENCE...

RWY 19 - CLIMB HEADING 191.08 TO 1900 THEN CLIMBING RIGHT TURN DIRECT TKA VOR/DME, THENCE...

...CONTINUE CLIMB-IN-HOLD IN TKA VOR/DME HOLDING PATTERN (HOLD S, LT, 351.82 INBOUND) TO CROSS TKA VOR/DME AT OR ABOVE MEA/
MCA FOR ROUTE OF FLIGHT BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1, TREE 38 FT FROM DER, 499 FT RIGHT OF CENTERLINE, 53 FT AGL/411 FT MSL.
TREES BEGINNING 71 FT FROM DER, 385 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/411 FT MSL.
TREE 178 FT FROM DER, 494 FT RIGHT OF CENTERLINE, 58 FT AGL/417 FT MSL.
TREES BEGINNING 270 FT FROM DER, 275 FT LEFT OF CENTERLINE, UP TO 81 FT AGL/443 FT MSL.
TREES BEGINNING 371 FT FROM DER, 354 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/433 FT MSL.
TREES BEGINNING 476 FT FROM DER, 302 FT LEFT OF CENTERLINE, UP TO 86 FT AGL/448 FT MSL.
TREES BEGINNING 525 FT FROM DER, 322 FT RIGHT OF CENTERLINE, UP TO 84 FT AGL/445 FT MSL.
TREE 584 FT FROM DER, 552 FT RIGHT OF CENTERLINE, 86 FT AGL/447 FT MSL.
TREES BEGINNING 690 FT FROM DER, 386 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/448 FT MSL.
TREES BEGINNING 741 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 87 FT AGL/449 FT MSL.
TREES BEGINNING 781 FT FROM DER, 385 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/449 FT MSL.
TREES BEGINNING 884 FT FROM DER, 148 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/451 FT MSL.
TREES BEGINNING 912 FT FROM DER, 345 FT LEFT OF CENTERLINE, UP TO 91 FT AGL/451 FT MSL.
TREES BEGINNING 1109 FT FROM DER, 49 FT LEFT OF CENTERLINE, UP TO 92 FT AGL/454 FT MSL.
TREES BEGINNING 2144 FT FROM DER, 106 FT LEFT OF CENTERLINE, UP TO 99 FT AGL/461 FT MSL.
TREES BEGINNING 2179 FT FROM DER, 147 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/452 FT MSL.
TREES BEGINNING 2342 FT FROM DER, 606 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/457 FT MSL.
TREES BEGINNING 2371 FT FROM DER, 32 FT RIGHT OF CENTERLINE, UP TO 94 FT AGL/460 FT MSL.
TREES BEGINNING 2996 FT FROM DER, 183 FT RIGHT OF CENTERLINE, UP TO 97 FT AGL/464 FT MSL.
TREE 3869 FT FROM DER, 111 FT LEFT OF CENTERLINE, 99 FT AGL/467 FT MSL.
TREE 4618 FT FROM DER, 1693 FT LEFT OF CENTERLINE, 125 FT AGL/493 FT MSL.
TREES BEGINNING 4711 FT FROM DER, 1430 FT LEFT OF CENTERLINE, UP TO 132 FT AGL/501 FT MSL.

NOTE: RWY 19, BUSH 82 FT FROM DER, 272 FT RIGHT OF CENTERLINE, 358 FT MSL.
WSK 100 FT FROM DER, 207 FT RIGHT OF CENTERLINE, 11 FT AGL/361 FT MSL.
TREE 125 FT FROM DER, 500 FT LEFT OF CENTERLINE, 23 FT AGL/374 FT MSL.
TREE 130 FT FROM DER, 499 FT RIGHT OF CENTERLINE, 63 FT AGL/412 FT MSL.
TREES BEGINNING 173 FT FROM DER, 145 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/401 FT MSL.
TREE, POLE BEGINNING 266 FT FROM DER, 170 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/425 FT MSL.
TREES BEGINNING 1345 FT FROM DER, 167 FT RIGHT OF CENTERLINE, UP TO 83 FT AGL/432 FT MSL.
TREE 1648 FT FROM DER, 912 FT LEFT OF CENTERLINE, 54 FT AGL/403 FT MSL.
TREES BEGINNING 1692 FT FROM DER, 67 FT RIGHT OF CENTERLINE, UP TO 85 FT AGL/434 FT MSL.
TREES BEGINNING 1816 FT FROM DER, 14 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/416 FT MSL.
TREES BEGINNING 1948 FT FROM DER, 36 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/419 FT MSL.
TREES BEGINNING 2008 FT FROM DER, 350 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/440 FT MSL.
TREES BEGINNING 2064 FT FROM DER, 789 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/485 FT MSL.
TREES BEGINNING 2376 FT FROM DER, 774 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/520 FT MSL.
TREES BEGINNING 2481 FT FROM DER, 776 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/527 FT MSL.
TREES BEGINNING 2485 FT FROM DER, 199 FT RIGHT OF CENTERLINE, UP TO 101 FT AGL/449 FT MSL.
TREES BEGINNING 2500 FT FROM DER, 193 FT RIGHT OF CENTERLINE, UP TO 107 FT AGL/453 FT MSL.
TREES BEGINNING 3009 FT FROM DER, 684 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/535 FT MSL.
TREES BEGINNING 3062 FT FROM DER, 761 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/542 FT MSL.
TREES BEGINNING 3168 FT FROM DER, 755 FT LEFT OF CENTERLINE, UP TO 94 FT AGL/549 FT MSL.
TREES BEGINNING 6019 FT FROM DER, 1486 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/556 FT MSL.
TREES BEGINNING 1 NM FROM DER, 1624 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/558 FT MSL.
TREE, RD (N), FENCE, TERRAIN, ANT, SATELLITE DISH, LT POLE, BLDG, VOR/DME BEGINNING 1 NM FROM DER, 1382 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/595 FT MSL.
TREE, FENCE BEGINNING 1.1 NM FROM DER, 1379 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/600 FT MSL.

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

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

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
TALKEETNA, AK	TALKEETNA	17 AUGUST 2017	3

TREE, FENCE BEGINNING 1.1 NM FROM DER, 1338 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/602 FT MSL.
TREE 1.3 NM FROM DER, 1920 FT LEFT OF CENTERLINE, 90 FT AGL/575 FT MSL.

CONTROLLING OBSTACLES:

RWY 19: 520 MSL TREE 621838.00N/1500553.41W (CLIMB GRADIENT), 575 MSL TREE 621741.86N/1500632.58W (VISIBILITY), 602 MSL TREE 621752.50N/1500630.50W (CEILING), 2432 MSL AAO 621756.00N/1495022.00W (CLIMB-TO ALTITUDE).

RWY 1: 1513 MSL AAO 621742.00N/1500006.00W (CLIMB-TO ALTITUDE).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 19: 14069 MSL AAO 625512.00N/1510400.00W. RWY 1: 14069 MSL AAO 625512.00N/1510400.00W.

REMARKS:

FLIGHT INSPECTED BY:

JUAN MANUEL CASTRO

Digitally signed by
ROBERT G HAMILTON
Jul 12, 2017

OFFICE SYMBOL:
FICO

DATE:
7/10/2017

DEVELOPED BY:

JOHN R. ROSARIO

JOHN R ROSARIO Digitally signed by JOHN R ROSARIO
Date: 2017.03.27 15:24:18 -05'00'

OFFICE SYMBOL:
AJV-5422

DATE:
03/10/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by
STEVEN A VARGAS
Apr 24, 2017

OFFICE SYMBOL:
AJV-5420

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, STATE OF ALASKA DOTPF, AIRPORT MANAGER

CHANGES - REASONS:

1. CHANGED ALL REFERENCES TO RUNWAY 18/36 TO 1/19 - MAG VAR UPDATED FROM 19E, 2010 TO 16E, 2020
2. UPDATED HEADINGS FROM 188.05 TO 191.08 AND FROM 008.04 TO 011.07 - MAG VAR UPDATED FROM 19E, 2010 TO 16E, 2020
3. REVISED DEPARTURE OBSTACLE NOTES - NEW OBSTACLE DATA
4. TAKE OFF MINIMUMS RWY 19 RAISED FROM 300-1 1/4 TO 300-1 3/4 - NEW OBSTACLE DATA AND CRITERIA
5. CLIMB TO ALTITUDE RWY 19 RAISED FROM 1500 TO 1900 - RAISE OCS TO OVERCOME CLIMB-IN-HOLD PENETRATIONS

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: TKA 1.15 DME								
TKA VOR/DME			HISLO/3.90 DME			172.00 / 3.90			4000		CLIMB TO 2100 ON TKA VOR/DME R-352.00 THEN CLIMBING LEFT TURN TO 3200 DIRECT TKA VOR/DME AND HOLD.								
URTOW/14.00 DME CW (IAF)			JEBOL/14.00 DME (NOPT)			14.00 DME ARC			2500										
JEBOL/14.00 DME (IF)			HISLO/3.90 DME			352.00 / 10.08 (TKA R-172)			2000										
										ADDITIONAL FLIGHT DATA: HOLD S, LT, 351.82 INBOUND. FAS OBST: 710 AAO 621442N/1500524W CHART TKA R-156 AT URTOW. CHART CIRCLING ICON. HISLO TO RWY 1: 3.00/35 CHART PLANVIEW NOTE: DME REQUIRED.									
1. PT <u>R</u> SIDE OF COURSE <u>172.00</u> OUTBOUND <u>2500</u> FT WITHIN <u>10</u> MILES OF <u>HISLO</u> (IAF)										MAG VAR: 19E EPOCH YEAR:2010									
2.																			
3. FAC <u>352.00</u> FAF <u>HISLO/3.90 DME</u> DIST FAF TO MAP <u></u> THLD <u>5.05</u>																			
4. MIN. ALT <u>HISLO/3.90 DME 2000</u>																			
8. MSA FROM: <u>TKA VOR/DME 7900</u>																			
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-01		1040	1	677	1040	1	677	1040	1 7/8	677	1040	1 7/8	677						
CIRCLING		1040	1	675	1040	1	675	1040	2	675	1200	2 3/4	835						
NOTES:																			
CHART NOTE: CIRCLING NA EAST OF RWY 1-19. @ CAT D 900-2 3/4																			
CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																			
CHART NOTE: DME REQUIRED.																			
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TKA VOR/DME ON T242 SOUTHEAST BOUND AND ON V436																			
(CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 365 TDZE: 363			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP VOR/DME RWY 36							
TALKEETNA, AK		AIRPORT NAME:			TKA		VOR RWY 1, AMDT 3					AMDT 2							
		TALKEETNA					17 AUGUST 2017					DATE 06/03/2010							



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

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

NOTES, (CONT.):

NORTHBOUND.

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

CHART NOTE: STRAIGHT-IN RWY 1 NA AT NIGHT, CIRCLING RWY 1 NA AT NIGHT.



CITY AND STATE

TALKEETNA, AK

ELEVATION: 365

TDZE: 363

AIRPORT NAME:

TALKEETNA

FACILITY
IDENTIFIER:

TKA

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 1, AMDT 3

17 AUGUST 2017

SUP: VOR/DME RWY 36

AMDT: 2

DATED: 06/03/2010

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: 1.15 NM AFTER TKA VOR/DME							
												CLIMB TO 2100 ON TKA VOR/DME R-351.82 THEN CLIMBING LEFT TURN TO 3200 DIRECT TKA VOR/DME AND HOLD.							
												ADDITIONAL FLIGHT DATA: HOLD S, LT, 351.82 INBOUND. CHART FAS OBST: 665 TREE 621842N/1500518W CHART CIRCLING ICON. TKA VOR/DME TO RW1: 7.33/45.							
1. PT <u>R</u> SIDE OF COURSE <u>171.82</u> OUTBOUND <u>2800</u> FT WITHIN <u>10</u> MILES OF <u>TKA VOR/DME</u> (IAF)																			
2.																			
3. FAC <u>351.82</u> FAF <u>TKA VOR/DME</u> DIST FAF TO MAP <u>1.15</u> THLD																			
4. MIN. ALT <u>TKA VOR/DME 1300</u>																			
8. MSA FROM: <u>TKA VOR/DME 7900</u>										MAG VAR: <u>19E</u> EPOCH YEAR: <u>2010</u>									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: <u>N A</u>		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		1080	1	715	1080	1	715	1080	2	715	1200	2 3/4	835						
NOTES:																			
CHART NOTE: CIRCLING NA EAST OF RWY 1-19.										@ CAT D 900-2 3/4									
CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																			
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TKA VOR/DME ON T242 SOUTHEAST BOUND.																			
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																			
CHART NOTE: CIRCLING RWY 1 NA AT NIGHT.																			
CITY AND STATE TALKEETNA, AK				ELEVATION: 365 TDZE: AIRPORT NAME: TALKEETNA				FACILITY IDENTIFIER: TKA		PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: VOR-A, AMDT 11 17 AUGUST 2017						SUP AMDT 10 DATE 06/03/2010			



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.54 NM AFTER COLOB									
LINTZ (IF/IAF)			COLOB (TF) (FB) (RNP 1.00)			052.45 / 11.76 (I-ANB)				2400		CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3500 DIRECT CAMKU THEN ON TRACK 209.84 TO CANUG AND ON TRACK 299.72 TO LINTZ AND HOLD.									
												ADDITIONAL FLIGHT DATA: CHART FAS OBST: 729 TREE 333400N/0855250W CHART R-2101. CHART R-2102 A,B,C. CHART CIRCLING ICON. CHART PLANVIEW NOTE: RNAV 1-GPS REQUIRED									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. HOLD SW LINTZ, LT, 052.45 INBOUND, 3500 FT. IN LIEU OF PT (IAF)																					
3. FAC: 052.45 FAF: COLOB DIST FAF TO MAP: 5.54 THLD: 5.54																					
4. MIN. ALT: LINTZ 3500, COLOB 2400																					
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 763																					
6. MIN GS INCPT: 2400 GS ALT AT: COLOB 2400 OM: - MM: - IM: -																					
7. GS ANGLE: 3.00 TCH: 39.6																					
8. MSA FROM:												MAG VAR: 4W EPOCH YEAR: 2020									
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: @										
CATEGORY =====>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
S-ILS 05	909	1/2	314	909	1/2	314	909	1/2	314	909	1/2	314									
S-LOC 05	1120	1/2	525	1120	1/2	525	1120	1	525	1120	1	525									
CIRCLING	1420	1	808	1420	1	808	1420	2 1/4	808	1820	3	1208									
NOTES: CHART NOTE: CIRCLING NA N OF RWY 5-23. CHART NOTE: RNAV 1-GPS REQUIRED. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 5 ALL CATS VISIBILITY TO 1 SM. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GADSDEN ALTIMETER SETTING: INCREASE DA TO (CONTINUED ON PAGE 2)																					
CITY AND STATE ANNISTON, AL				ELEVATION: 612 TDZE: 595 AIRPORT NAME: ANNISTON RGNL				FACILITY IDENTIFIER: I-ANB		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Y OR LOC Y RWY 5, ORIG 17 AUGUST 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.

NOTES, (CONT.):

975 AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 80 FEET, AND S-LOC 5 CAT C/D, AND CIRCLING CAT

C VISIBILITIES 1/2 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING GADSDEN ALTIMETER SETTING: INCREASE S-ILS 5 ALL CATS TO 1 1/4 SM.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	322/30 CW 142/30 (NOPT)	LINTZ (IF/IAF) (FB)	3500
2.	142/30 CW 322/30	142/5 CW 322/5	4000
3.	142/5 CW 322/5	LINTZ (IF/IAF) (FO)	3500

QUALITY
25
CHECKED

CITY AND STATE

ANNISTON, AL

ELEVATION: 612

TDZE: 595

AIRPORT NAME:

ANNISTON RGNL

FACILITY
IDENTIFIER:

I-ANB

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS Y OR LOC Y RWY 5, ORIG

17 AUGUST 2017

SUP:

AMDT:

NONE

DATED:

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: 4.31 NM AFTER BOGGA LOM CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 110 THEN ON BOGGA LOM 260 COURSE TO BOGGA LOM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 052.00 INBOUND. CHART FAS OBST: 729 TREE 333400N/0855250W CHART R-2101. CHART R-2102 A,B,C. CHART CIRCLING ICON. CHART PLANVIEW NOTE: ADF REQUIRED.						
BOGGA LOM			LINTZ INT/VUZ 42.35 DME			232.32 / 13.00			3500								
LINTZ INT/VUZ 42.35 DME (IF/IAF)			BOGGA LOM			052.45 / 13.02 (I-ANB)			2300*								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW LINTZ, LT, 052.45 INBOUND, 3400 FT. IN LIEU OF PT (IAF) 3. FAC: <u>052.45</u> FAF: <u>BOGGA LOM</u> PFAF: <u>COLOB</u> DIST FAF TO MAP: <u>4.31</u> THLD: <u>4.31</u> 4. MIN. ALT: <u>LINTZ 3400, BOGGA LOM 2300*</u> 5. DIST TO THLD FROM OM: <u>4.31</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: 763 6. MIN GS INCPT: <u>2400</u> GS ALT AT: <u>COLOB 2400</u> OM: <u>2022</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>39.6</u> 8. MSA FROM: AN LOM 4000																	
										MAG VAR: 4W 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 05	909	1/2	314	909	1/2	314	909	1/2	314	909	1/2	314					
S-LOC 05	1120	1/2	525	1120	1/2	525	1120	1	525		NA						
CIRCLING	1420	1	808	1420	1	808	1420	2 1/4	808	1820	3	1208					
NOTES: CHART NOTE: CIRCLING NA NORTH OF RWY 5-23. CHART NOTE: ADF REQUIRED. *LOC ONLY CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GADSDEN ALTIMETER SETTING: INCREASE DA TO (CONTINUED ON PAGE 2)																	
CITY AND STATE				ELEVATION: 612 TDZE: 595				FACILITY IDENTIFIER: I-ANB				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: ILS OR LOC RWY 5	
ANNISTON, AL				AIRPORT NAME: ANNISTON RGNL								ILS Z OR LOC Z RWY 5, AMDT 4				AMDT: 3C	
								17 AUGUST 2017								DATED 05/28/2015	



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

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

NOTES, (CONT.):

975 AND ALL VISIBILITIES 1/4 SM: ALL MDAS 80 FEET, AND ALL CAT C VISIBILITIES 1/2 SM.

CHART NOTE: FOR INOPERATIVE ALS INCREASE S-ILS 5 ALL CATS VISIBILITY TO 1 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING GADSDEN ALTIMETER SETTING, INCREASE S-ILS 5 ALL CATS VISIBILITY TO 1 1/4 SM.



CITY AND STATE
ANNISTON, AL

ELEVATION: 612 TDZE: 595
AIRPORT NAME:
ANNISTON RGNL

FACILITY
IDENTIFIER:
I-ANB

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS Z OR LOC Z RWY 5, AMDT 4
17 AUGUST 2017

SUP: ILS OR LOC RWY 5
AMDT: 3C
DATED: 05/28/2015

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE											
										ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. _____																			
3. FAC ____ FAF _____ DIST FAF TO MAP ____ THLD _____																			
4. MIN. ALT _____																			
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017																			
CITY AND STATE ANNISTON, AL				ELEVATION: 612 TDZE: 595 AIRPORT NAME: ANNISTON RGNL				FACILITY IDENTIFIER: ANB		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 5, AMDT 4C, 05/28/2015						SUP AMDT 4B DATE 02/09/2012			

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			LPV: DA LNAV: RW05					
LINTZ (IF/IAF)			COLOB (TF) (FB) (RNP 1.00)			052.31 / 11.76			2400			CLIMB TO 1600, THEN CLIMBING RIGHT TURN TO 3500 DIRECT CAMKU AND TRACK 209.84 TO CANUG AND TRACK 299.72 TO LINTZ AND HOLD.					
COLOB (FAF)			RW05 (MAP) (TF) (FO) (RNP 0.30)			052.40 / 5.54			1600								
RW05 (MAP)			1600 MSL (CA)									ADDITIONAL FLIGHT DATA: CHART FAS OBST: 998 TOWER 333352N/0855453W CHART R-2101. CHART R-2102 A,B,C. DISTANCE TO THLD FROM 314 HAT: 0.86 NM. CHART VDP AT 1.65 NM TO RW05* *LNAV ONLY. WAAS CHANNEL # 78106 REFERENCE PATH ID: W05A CHART CIRCLING ICON. LTP HAE: 152.6 M					
1600 MSL			CAMKU (DF) (FB) (RNP 1.00)														
CAMKU			CANUG (TF) (FB) (RNP 1.00)			209.84 / 15.03											
CANUG			LINTZ (TF) (FO) (RNP 1.00)			299.72 / 23.05			3500								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)												MAG VAR: 4W EPOCH YEAR: 2020					
2. HOLD SW LINTZ, LT, 052.31 INBOUND, 3500 FT. IN LIEU OF PT (IAF)																	
3. FAC: 052.40 FAF: COLOB DIST FAF TO MAP: 5.54 THLD: 5.54																	
4. MIN. ALT: LINTZ 3500, COLOB 2400																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: 2400 GS ALT AT: COLOB 2400 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 39.6 34:1 IS 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		
LPV DA	909	5/8	314	909	5/8	314	909	5/8	314	909	5/8	314					
LNAV MDA	1160	1/2	565	1160	1/2	565	1160	1 1/4	565	1160	1 1/4	565					
CIRCLING	1420	1	808	1420	1	808	1420	2 1/4	808	1820	3	1208					
NOTES: CHART NOTE: CIRCLING NA N OF RWY 5-23. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GADSDEN ALTIMETER SETTING AND INCREASE ALL DA 66 FEET AND ALL MDA 80 FEET AND LPV ALL CATS, LNAV CATS C AND D AND CIRCLING CATS A, B, AND C (CONTINUED ON PAGE 2)																	
CITY AND STATE ANNISTON, AL				ELEVATION: 612 TDZE: 595 AIRPORT NAME: ANNISTON RGNL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 2 17 AUGUST 2017						SUP: AMDT: 1B DATED 05/28/2015	



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

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

NOTES, (CONT.):
VISIBILITY 1/4 SM.
CHART NOTE: FOR INOPERATIVE ALS INCREASE LPV ALL CATS VISIBILITY TO 1 SM.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING GADSDEN ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 1/4 SM.
CHART NOTE: VDP NA WITH GADSDEN ALTIMETER SETTING.

TAA	FROM	TO	ALT
1.	322/30 CW 142/30 (NOPT)	LINTZ (IF/IAF) (FB)	3500
2.	142/30 CW 322/30	142/5 CW 322/5	4000
3.	142/5 CW 322/5	LINTZ (IF/IAF) (FO)	3500

QUALITY
25
CHECKED

CITY AND STATE ANNISTON, AL	ELEVATION: 612 TDZE: 595 AIRPORT NAME: ANNISTON RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1B
				DATED: 05/28/2015

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KANB
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	333454.4445N
LTP/FTP LONGITUDE	0855200.1775W
LTP/FTP ELLIPSOIDAL HEIGHT	+01526
FPAP LATITUDE	333553.6445N
FPAP LONGITUDE	0855040.3495W
THRESHOLD CROSSING HEIGHT (TCH)	00039.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 27974C6F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01813
FPAP ORTHOMETRIC HEIGHT	+01813

QUALITY
25
CHECKED

CITY AND STATE ANNISTON, AL	ELEVATION: 612 AIRPORT NAME: ANNISTON RGNL	TDZE: 595 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1B
				DATED: 05/28/2015

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.														
TERMINAL ROUTES											MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 3400 DIRECT LINTZ AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 052.31 INBOUND. CHART FAS OBST: 1124 TOWER 333640N/0855044W CHART: 2033 TREE (KANBT013) 333959N/0854554W CHART R-2101. CHART R-2102 A,B,C. DISTANCE TO THLD FROM 340 HAT: 0.80 NM. CHART VDP AT 2.28 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 58315 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 157.8 M									
ODOVY (IF/IAF)		HILAG (TF) (FB) (RNP 1.00)			232.58 / 5.93				3100											
HILAG		NOWOP (TF) (FB) (RNP 1.00)			232.53 / 2.07				2800											
NOWOP (FAF)		RW23 (MAP) (TF) (FO) (RNP 0.30)			232.51 / 6.01															
RW23 (MAP)		952 MSL (CA)			232.51				3400											
952 MSL		LINTZ (DF) (FO) (RNP 1.00)																		
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE ODOVY, RT, 232.58 INBOUND, 3700 FT. IN LIEU OF PT (IAF) 3. FAC: 232.51 FAF: NOWOP DIST FAF TO MAP: 6.01 THLD: 6.01 4. MIN. ALT: ODOVY 3700, HILAG 3100, NOWOP 2800 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2800 GS ALT AT: NOWOP 2800 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.34 TCH: 56.1 34:1 IS NOT CLEAR 8. MSA FROM: _____																	MAG VAR: 4W		EPOCH YEAR: 2020	
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A							@			
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LPV DA	952	1	340	952	1	340	952	1	340		NA									
LNAV/VNAV DA	1274	2	662	1274	2	662	1274	2	662		NA									
LNAV MDA	1380	1	768	1380	1 1/4	768	1380	2 1/2	768	1380	2 1/2	768								
CIRCLING	1420	1	808	1420	1 1/4	808	1420	2 1/2	808	1820	3	1208								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C (18F) OR ABOVE 54C (130F). CHART NOTE: CIRCLING NA NORTH OF RWY 5-23. CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																	@ NA WHEN LOCAL WEATHER NOT AVAILABLE. @ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 1300-3		QUALITY 25 CHECKED	
CITY AND STATE		ELEVATION: 612 TDZE: 612			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP: RNAV (GPS) Z RWY 23								
ANNISTON, AL		AIRPORT NAME: ANNISTON RGNL					RNAV (GPS) RWY 23, AMDT 1 17 AUGUST 2017					AMDT: ORIG-B								
												DATED 08/21/2014								

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

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

NOTES, (CONT.):

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GADSDEN ALTIMETER SETTING: INCREASE ALL DA 66 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE ALL MDAS 80 FEET AND CIRCLING CAT A AND C VISIBILITIES 1/4 SM.

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

TAA

	FROM	TO	ALT
1.	143/30 CW 323/30 (NOPT)	143/5 CW 323/5	3800
2.	143/5 CW 323/5	ODOVY (IF/IAF) (FB)	3700
3.	323/30 CW 143/30	323/5 CW 143/5	4000
4.	323/5 CW 143/5	ODOVY (IF/IAF) (FO)	3700

QUALITY
25
CHECKED

CITY AND STATE ANNISTON, AL	ELEVATION: 612 TDZE: 612 AIRPORT NAME: ANNISTON RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1 17 AUGUST 2017	SUP: RNAV (GPS) Z RWY 23
				AMDT: ORIG-B
				DATED: 08/21/2014

**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	KANB
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	333540.3670N
LTP/FTP LONGITUDE	0855058.2415W
LTP/FTP ELLIPSOIDAL HEIGHT	+01578
FPAP LATITUDE	333441.1700N
FPAP LONGITUDE	0855218.0600W
THRESHOLD CROSSING HEIGHT (TCH)	00056.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.34
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

54510342

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01865
FPAP ORTHOMETRIC HEIGHT	+01865

QUALITY
25
CHECKED

CITY AND STATE

ANNISTON, AL

ELEVATION: 612

TDZE: 612

AIRPORT NAME:

ANNISTON RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, AMDT 1

17 AUGUST 2017

SUP: RNAV (GPS) Z RWY
23

AMDT: ORIG-B

DATED: 08/21/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HATh, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										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 17 AUGUST 2017																					
CITY AND STATE ANNISTON, AL		ELEVATION: 612 THRE: 612 AIRPORT NAME: ANNISTON RGNL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 23, AMDT 1B, 08/21/2014						SUP: AMDТ: 1A DATED 02/09/2012							

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: I-ROE 1.94 DME CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT VUZ VORTAC AND HOLD(TACAN AIRCRAFT CONTINUE ON VUZ VORTAC R-333 TO SIPSY/VUZ 14.81 DME AND HOLD NW, RT, 152.80 INBOUND). ADDITIONAL FLIGHT DATA: HOLD NE, RT, 226.00 INBOUND. CHART FAS OBST: 897 TREE 333515N/0864321W 1100 AAO 333613N/0864038W CHART VDP AT 3.35 DME* DISTANCE VDP TO THLD 1.41 NM. *LOC ONLY. CHART PLANVIEW NOTE: DME REQUIRED.					
VUZ VORTAC		SPATT/I-ROE 14.06 DME		084.83 / 17.89				3700							
SPATT/I-ROE 14.06 DME (IF/IAF)		HUKEV/I-ROE 9.80 DME		238.48 / 4.26 (I-ROE)				2700							
HUKEV/I-ROE 9.80 DME		LOWGA/I-ROE 6.68 DME		238.48 / 3.13 (I-ROE)				2200							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE SPATT, RT, 238.48 INBOUND, 3300 FT. IN LIEU OF PT (IAF) 3. FAC: <u>238.48</u> FAF: <u>LOWGA/I-ROE 6.68 DME</u> DIST FAF TO MAP: _____ THLD: <u>4.73</u> 4. MIN. ALT: <u>SPATT 3700, HUKEV 2700, LOWGA 2200, CUXOB/I-ROE 5.24 DME 1740*</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - 100 HAT: <u>929</u> GS ANT: <u>1235</u> 6. MIN GS INCPT: <u>2200</u> GS ALT AT: <u>LOWGA 2200</u> OM: _____ - _____ MM: _____ - _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>51.9</u> 8. MSA FROM: VUZ VORTAC 3700										MAG VAR: 3W EPOCH YEAR: 2010					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD			LOC: STANDARD			
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 24	841	2400	200	841	2400	200	841	2400	200	841	2400	200	841	2400	200
S-LOC 24	1160	4000	519	1160	4000	519	1160	5500	519	1160	5500	519	1160	5500	519
NOTES: SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 24: CAT A, B, C, D, RA 92, RVR 1200, HAT 100, DA 741 MSL. CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED. CHART NOTE: DME REQUIRED. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 650 TDZE: 641		FACILITY IDENTIFIER: I-ROE		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
BIRMINGHAM, AL		AIRPORT NAME:		BIRMINGHAM-SHUTTLESWORTH INTL		ILS OR LOC RWY 24, AMDT 4; ILS RWY 24 (SA CAT II)				AMDT: 3B					
						17 AUGUST 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

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NOTES, (CONT.):

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT SPATT ON V209 SOUTHWEST BOUND.

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VUZ VORTAC AIRWAY RADIALS 046 CW 136.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 24 CAT E VISIBILITY TO RVR 4000 AND INCREASE S-LOC 24 CAT A/B VISIBILITY TO RVR 5500, AND CAT C/D/E TO 1 3/8 SM.

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



CITY AND STATE BIRMINGHAM, AL	ELEVATION: 650 TDZE: 641 AIRPORT NAME: BIRMINGHAM-SHUTTLESWORTH INTL	FACILITY IDENTIFIER: I-ROE	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 24, AMDT 4; ILS RWY 24 (SA CAT II) 17 AUGUST 2017	SUP:
				AMDT: 3B
				DATED: 03/02/2017

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			LPV: DA LNAV/VNAV: DA LNAV: RW24 CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT CAPUN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 176.10 INBOUND. 1100 AAO 333551N/0864036W CHART FAS OBST: 998 TREE 333531N/0864110W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.72 NM TO RW24* *LNAV ONLY. WAAS CHANNEL # 53605 REFERENCE PATH ID: W24A LTP HAE: 166 M									
VUZ VORTAC			SPATT (TF) (FO) (RNP 2.00)			089.83 / 17.89			3600												
SPATT (IF/IAF)			HUKEV (TF) (FB) (RNP 1.00)			238.58 / 4.26			2700												
HUKEV			LOWGA (TF) (FB) (RNP 1.00)			238.51 / 3.13			2200												
LOWGA (FAF)			CUXOB/3.30 NM TO RW24 (TF) (FB) (RNP 0.30)			238.52 / 1.43															
CUXOB/3.30 NM TO RW24			RW24 (MAP) (TF) (FO) (RNP 0.30)			238.52 / 3.30															
(SEE FORM 8260-10)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE SPATT, RT, 238.58 INBOUND, 3300 FT. IN LIEU OF PT (IAF) 3. FAC: 238.52 FAF: LOWGA DIST FAF TO MAP: 4.73 THLD: 4.73 4. MIN. ALT: SPATT 3600, HUKEV 2700, LOWGA 2200, CUXOB/3.30 NM TO RW24 1740* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2200 GS ALT AT: LOWGA 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.9 34:1 IS NOT CLEAR 8. MSA FROM: RW24 3100																		MAG VAR: 3W		EPOCH YEAR: 2010	
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD									
CATEGORY ==>		A			B			C			D			E							
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LPV DA		841	2400	200	841	2400	200	841	2400	200	841	2400	200	841	2400	200					
LNAV/VNAV DA		1200	1 1/2	559	1200	1 1/2	559	1200	1 1/2	559	1200	1 1/2	559	1200	1 1/2	559					
LNAV MDA		1260	4000	619	1260	4000	619	1260	1 3/8	619	1260	1 3/8	619	1260	1 3/8	619					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C (18F) OR ABOVE 54C (130F). CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT SPATT ON V209 SOUTHWEST BOUND. (CONTINUED ON PAGE 2)																					
CITY AND STATE				ELEVATION: 650 TDZE: 641				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
BIRMINGHAM, AL				AIRPORT NAME: BIRMINGHAM-SHUTTLESWORTH INTL				RNAV (GPS) Y RWY 24, AMDT 4 17 AUGUST 2017				AMDT: 3B									
												DATED 06/22/2017									



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
RW24 (MAP)	1300 MSL (CA)	238.52	1300
1300 MSL	CAPUN (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

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

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 7/8 SM AND LNAV CAT A/B VISIBILITY TO RVR 5500, AND CAT C/D/E TO 1 3/4 SM.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VUZ VORTAC AIRWAY RADIALS 346 CW 159.



CITY AND STATE
BIRMINGHAM, AL

ELEVATION: 650 TDZE: 641
AIRPORT NAME:
BIRMINGHAM-SHUTTLESWORTH INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 24, AMDT 4
17 AUGUST 2017

SUP:
AMDT: **3B**
DATED: **06/22/2017**

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 INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KBHM
RUNWAY RW24
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR Y
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W24A
LTP/FTP LATITUDE 333417.7740N
LTP/FTP LONGITUDE 0864432.4865W
LTP/FTP ELLIPSOIDAL HEIGHT +01660
FPAP LATITUDE 333317.2060N
FPAP LONGITUDE 0864617.6485W
THRESHOLD CROSSING HEIGHT (TCH) 00051.9
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0000
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 35.0

CRC REMAINDER

DC7B449F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K7
LTP ORTHOMETRIC HEIGHT +01952
FPAP ORTHOMETRIC HEIGHT +01952

QUALITY
25
CHECKED

CITY AND STATE

BIRMINGHAM, AL

ELEVATION: 650

TDZE: 641

AIRPORT NAME:

BIRMINGHAM-SHUTTLESWORTH INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 24, AMDT 4

17 AUGUST 2017

SUP:

AMDT: 3B

DATED: 06/22/2017

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.											
TERMINAL ROUTES												MISSED APPROACH											
FROM			TO			COURSE AND DISTANCE			ALTITUDE			RNP: DA CLIMB TO 3000 ON TRACK 238.49 TO YACUR, RIGHT TURN TO WADEG, THEN TRACK 066.79 TO VUZ VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 229.00 INBOUND. DISTANCE TO THLD FROM 509 HAT: 1.44 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 692.3 MSL (DO NOT CHART)											
LDK VORTAC			JAVJA (TF) (FB) (RNP 2.00)			060.84 / 7.00			9000														
JAVJA (IAF)			ISOJO (TF) (FB) (RNP 1.00)			061.37 / 12.20			6000														
ISOJO			HESGA (TF) (FB) (RNP 1.00)			060.73 / 19.14			4000														
HESGA			LISRE (TF) (FB) (RNP 1.00)			056.26 / 9.20			3000														
WENDO			MREKK (TF) (FB) (RNP 2.00)			235.89 / 10.10			6000														
(SEE FORM 8260-10)																							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT LOWGA 3. FAC: <u>238.52</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: LOWGA 2200 5. DIST TO THLD FROM OM: <u>4.73</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2200</u> GS ALT AT: LOWGA 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>51.9#</u> 34:1 IS NOT CLEAR 8. MSA FROM: RW24 3100																		MAG VAR: 3W EPOCH YEAR: 2010					
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD											
CATEGORY ==>		A			B			C			D			E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
AUTHORIZATION REQUIRED																							
RNP 0.15 DA	1150	1 1/4	509	1150	1 1/4	509	1150	1 1/4	509	1150	1 1/4	509											
RNP 0.30 DA	1244	1 5/8	603	1244	1 5/8	603	1244	1 5/8	603	1244	1 5/8	603											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -8C (18F) OR ABOVE 54C (130F). CHART NOTE: RF REQUIRED. CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT KYLEE ON V159-521 SOUTHEASTBOUND AND V66 EASTBOUND. (CONTINUED ON PAGE 2)																							
CITY AND STATE				ELEVATION: 650 TDZE: 641				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
BIRMINGHAM, AL				AIRPORT NAME: BIRMINGHAM-SHUTTLESWORTH INTL				RNAV				RNAV (RNP) Z RWY 24, AMDT 2 17 AUGUST 2017				AMDT: 1							
																DATED 04/28/2016							



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	
MREKK (IAF)	SPATT (TF) (FB) (RNP 1.00)	235.80 / 6.71	4000	
KYLEE	WEDEB (TF) (FB) (RNP 2.00)	337.46 / 12.09	6000	
WEDEB (IAF)	MOKEE (TF) (FB) (RNP 1.00)	337.62 / 12.00	3600	
VUZ VORTAC (IAF)	LISRE (TF) (FB) (RNP 1.00)	084.51 / 7.99	3000	
LISRE (IF)	ERIGE (TF) (FB) (RNP 1.00)	084.65 / 2.06	2500	
ERIGE	LOWGA (RF) (FB) (RNP 0.30)	(2.59 NM RADIUS CW (CFNXP))/6.95	2200	
SPATT (IF)	HUKEV (TF) (FB) (RNP 1.00)	238.58 / 4.26	2700	
HUKEV	LOWGA (TF) (FB) (RNP 1.00)	238.51 / 3.13	2200	
MOKEE (IF)	NOCIM (TF) (FB) (RNP 1.00)	352.08 / 3.99	2400	
NOCIM	LOWGA (RF) (FB) (RNP 0.30)	(2.50 NM RADIUS CCW (CFPVF))/4.95	2200	
LOWGA (FAF)	RW24 (MAP) (TF) (FO) (RNP 0.30)	238.52 / 4.73		
RW24 (MAP)	YACUR (TF) (FB) (RNP 1.00)	238.49 / 8.00		
YACUR	WADEG (RF) (FB) (RNP 1.00)	(5.00 NM RADIUS CW (CFLRS)) / 16.45		
WADEG	VUZ VORTAC (TF) (FO) (RNP 1.00)	066.79 / 4.16	3000	
NOTES, (CONT.): CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VUZ VORTAC AIRWAY RADIALS 046 CW 136. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LDK VORTAC AIRWAY RADIALS 049 CW 092. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE AT VUZ VORTAC, LDK VORTAC, KYLEE: (RNP 0.30). CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.				
CITY AND STATE BIRMINGHAM, AL	ELEVATION: 650 AIRPORT NAME: BIRMINGHAM-SHUTTLESWORTH INTL	TDZE: 641	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 24, AMDT 2 17 AUGUST 2017
SUP:				
AMDT:				1
DATED:				04/28/2016



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: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 2 SM.
CHART PLANVIEW NOTE AT ERIGE: MAX 180 KIAS UNTIL LOWGA.
CHART PLANVIEW NOTE AT NOCIM: MAX 180 KIAS UNTIL LOWGA.

QUALITY
25
CHECKED

CITY AND STATE
BIRMINGHAM, AL

ELEVATION: 650 TDZE: 641
AIRPORT NAME:
BIRMINGHAM-SHUTTLESWORTH INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (RNP) Z RWY 24, AMDT 2
17 AUGUST 2017

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

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: 5.90 NM AFTER JEFRS/GAD 6.98 DME OR AT 1.08 DME							
GAD VOR/DME			JEFRS/6.98 DME			232.11 / 6.98				3800		CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3500 ON GAD VOR/DME R-232 TO JEFRS/6.98 DME AND HOLD.							
										ADDITIONAL FLIGHT DATA: HOLD SW, RT, 052.11 INBOUND. CHART FAS OBST: 710 TOWER 335713N/0860635W 819 AAO 335519N/0861309W. CHART VDP AT 2.18 DME DISTANCE VDP TO THLD 1.10 NM. JEFRS TO RW06: 3.02/40. CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME REQUIRED.									
1. PT <u>L</u> SIDE OF COURSE <u>232.11</u> OUTBOUND <u>3100</u> FT WITHIN <u>10</u> MILES OF <u>JEFRS</u> (IAF)										MAG VAR: 2E EPOCH YEAR: 1965									
2.																			
3. FAC <u>052.11</u> FAF <u>JEFRS/6.98 DME</u> DIST FAF TO MAP <u>5.90</u> THLD <u>5.90</u>																			
4. MIN. ALT <u>JEFRS/6.98 DME 2500</u>																			
8. MSA FROM: <u>GAD VOR/DME 3400</u>																			
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	960	1	391	960	1	391	960	1 1/8	391	960	1 1/8	391							
CIRCLING	1100	1	531	1100	1	531	1440	2 1/2	871	1680	3	1111							
NOTES:																			
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANNISTON ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET; INCREASE S-6 CAT C/D VISIBILITY 1/4 SM AND CIRCLING CAT C 1/2 SM.										@ NA WHEN LOCAL WEATHER NOT AVAILABLE. @ CAT C 900-2 1/2, CAT D 1200-3									
CHART NOTE: VDP NA WHEN USING ANNISTON ALTIMETER SETTING.																			
CHART NOTE: DME REQUIRED.																			
CITY AND STATE GADSDEN, AL				ELEVATION: 569 TDZE: 569 AIRPORT NAME: NORTHEAST ALABAMA RGNL			FACILITY IDENTIFIER: GAD		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 6, AMDT 14 17 AUGUST 2017				SUP AMDT 13 DATE 02/14/2008						



RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW30 CLIMB TO 1000, THEN CLIMBING RIGHT TURN 4000 DIRECT HAIRE AND HOLD, CONTINUE CLIMB-IN-HOLD 4000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 120.32 INBOUND. CHART R-2531. CHART VDP AT 1.13 NM TO RW30* *LNAV ONLY. WAAS CHANNEL # 65902 REFERENCE PATH ID: W30A CHART WAAS SYMBOL DISTANCE TO THLD FROM 270 HAT: 0.66 NM CHART FAS OBST: 249 T-L TWR 374804N/1213538W LTP HAE: -17.4 M					
SMONE (IAF)		DASVE (TF) (FB) (RNP 1.00)		313.93 / 4.70				4900							
DASVE		MOVDD (TF) (FB) (RNP 1.00)		316.97 / 3.94				3000							
MOVDD (IF)		BABPI (TF) (FB) (RNP 1.00)		311.08 / 6.15				2600							
BABPI (FAF)		CUDUG/2.90 NM TO RW30 (TF)		300.34 / 3.88											
CUDUG/2.90 NM TO RW30		RW30 (MAP) (TF) (FO) (RNP 0.30)		300.34 / 2.90											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MOVDD 3. FAC: 300.34 FAF: BABPI DIST FAF TO MAP: 6.78 THLD: 6.78 4. MIN. ALT: MOVDD 3000, BABPI 2600, CUDUG/2.90 NM TO RW30 1140* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2600 GS ALT AT: BABPI OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.50 TCH: 30.8 34:1 IS CLEAR 8. MSA FROM: RW30 5600															
										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
LPV DA	325	7/8	270	325	7/8	270	325	7/8	270	325	7/8	270			
LNAV/VNAV DA	404	1 1/8	349	404	1 1/8	349	404	1 1/8	349	404	1 1/8	349			
LNAV MDA	500	1	445	500	1	445	500	1 3/8	445	500	1 3/8	445			
CIRCLING	600	1	521	600	1	521	680	1 3/4	601	820	2 1/2	741			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 15C (59F). @ CAT D 800-2 1/2 CHART NOTE: CIRCLING NA SW OF RWY 12-30. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW : PROCEDURE NA FOR ARRIVAL AT SMONE ON T261 SOUTHEAST BOUND.															
CITY AND STATE		ELEVATION: 79 TDZE: 55		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
BYRON, CA		AIRPORT NAME: BYRON				RNAV (GPS) RWY 30, AMDT 1 17 AUGUST 2017				AMDT: ORIG-A					
										DATED 12/20/2007					

QUALITY
 16
 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
RW30 (MAP)	1000 MSL (CA)	300.34	1000
1000 MSL	HAIRE (DF) (FO) (RNP 1.00)		4000

QUALITY
16
CHECKED

CITY AND STATE
BYRON, CA

ELEVATION: 79 TDZE: 55
AIRPORT NAME:
BYRON

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 30, AMDT 1
17 AUGUST 2017

SUP:
AMDT: ORIG-A
DATED: 12/20/2007

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	C83
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	374936.8925N
LTP/FTP LONGITUDE	1213714.0485W
LTP/FTP ELLIPSOIDAL HEIGHT	-00174
FPAP LATITUDE	375040.2600N
FPAP LONGITUDE	1213833.2080W
THRESHOLD CROSSING HEIGHT (TCH)	00030.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1384
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 C18D0230

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00148
FPAP ORTHOMETRIC HEIGHT	+00148

CITY AND STATE

BYRON, CA

ELEVATION: 79

TDZE: 55

AIRPORT NAME:

BYRON

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG-A

DATED: 12/20/2007

 QUALITY
16
CHECKED

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

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

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

TAKEOFF MINIMUMS:

RWY 23: NA - OBSTACLES

RWY 5, 12: STANDARD

RWY 30: 200-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 245 FT PER NM TO 300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FT PRIOR TO DER.

TEXTUAL DEPARTURE PROCEDURES:

RWY 5: CLIMBING LEFT TURN HEADING 010, THENCE...

RWY 12: CLIMBING LEFT TURN HEADING 360, THENCE...

RWY 30: CLIMBING RIGHT TURN HEADING 065, THENCE...

...ON LIN VOR/DME R-227 TO LIN VOR/DME BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5: BUSH 18 FT FROM DER, 68 FT RIGHT OF CENTERLINE, 52 FT MSL.

NOTE: RWY 12: TREE 495 FT FROM DER, 421 FT RIGHT OF CENTERLINE, 76 FT MSL.

NOTE: RWY 30: BLDG 65 FT FROM DER, 390 FT LEFT OF CENTERLINE, 28 FT AGL/90 FT MSL.

POLE 948 FT FROM DER, 455 FT RIGHT OF CENTERLINE, 32 FT AGL/89 FT MSL.

POLE 1159 FT FROM DER, 239 FT RIGHT OF CENTERLINE, 38 FT AGL/98 FT MSL.

POLE 1363 FT FROM DER, 28 FT RIGHT OF CENTERLINE, 35 FT AGL/101 FT MSL.

POLE 1591 FT FROM DER, 256 FT LEFT OF CENTERLINE, 35 FT AGL/123 FT MSL.

POLES BEGINNING 1709 FT FROM DER, 386 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/125 FT MSL.

GROUND 5649 FT FROM DER, 1838 FT LEFT OF CENTERLINE, 225 FT MSL.

CONTROLLING OBSTACLES:

RWY 30: 225 FT MSL GROUND 375033.31N/1213856.79W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 5, 12: 1139 FT MSL WINDMILL 374748.40N/1213847.94W, 3902 FT MSL TOWER 375254.00N/1215454.00W.

RWY 30: 1744 FT MSL WINDMILL 374704.88N/1214124.59W, 3902 FT MSL TOWER 375254.00N/1215454.00W.

REMARKS:

ACTUAL REQUIRED CLIMB GRADIENT 241 FT PER NM WAS ROUNDED UP TO 245 FT PER NM.

FLIGHT INSPECTED BY: *Digitally signed by*
CHARLES D. CUNNINGHAM **DONALD H LANIER**
Mar 28, 2017

OFFICE SYMBOL: FICO
DATE: 03/24/2017

DEVELOPED BY:
COLTON CROWDER COLTON M CROWDER *Digitally signed by COLTON M CROWDER*
Date: 2017.01.31 07:11:17 -06'00'

OFFICE SYMBOL: AJV-5431
DATE: 01/31/2017

APPROVED BY: *Digitally signed by*
PATRICK MULQUEEN **DONALD H LANIER**
Mar 28, 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:

NORCAL APP/CON, ZOA, AIRPORT MANAGER



**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>
BYRON, CA	BYRON	17 AUGUST 2017	2

CHANGES - REASONS:

CHANGES:

1. RWY 5 DEPARTURE INSTRUCTIONS CHANGED FROM "CLIMBING RIGHT TURN VIA HEADING 120 AND ECA VORTAC BEFORE PROCEEDING ON COURSE." TO "CLIMBING LEFT TURN HEADING 010, THENCE...ON LIN VOR/DME R-227 TO LIN VOR/DME BEFORE PROCEEDING ON COURSE."
2. RWY 12 DEPARTURE INSTRUCTIONS CHANGED FROM "CLIMBING LEFT TURN VIA HEADING 050 AND ECA VORTAC R-250 TO ECA VORTAC BEFORE PROCEEDING ON COURSE." TO "CLIMBING LEFT TURN HEADING 360, THENCE...ON LIN VOR/DME R-227 TO LIN VOR/DME BEFORE PROCEEDING ON COURSE."
3. RWY 30 TAKEOFF MINIMUMS CHANGED FROM "200-1 OR STD. WITH A MIN CLIMB OF 240' PER NM TO 300. ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200'/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2000' PRIOR TO DER." TO "200-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 245 FT PER NM TO 300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FT PRIOR TO DER."
4. RWY 30 DEPARTURE INSTRUCTIONS CHANGED FROM "CLIMBING RIGHT TURN VIA HEADING 130 AND ECA VORTAC R-250 TO ECA VORTAC BEFORE PROCEEDING ON COURSE." TO "RWY 30, CLIMBING RIGHT TURN HEADING 065, THENCE...ON LIN VOR/DME R-227 TO LIN VOR/DME BEFORE PROCEEDING ON COURSE."
5. TAKEOFF NOTES REVISED.
6. UPDATED CONTROLLING OBSTACLE AND ADDED OBSTACLES MANDATING ODP ROUTE DEVELOPMENT

REASONS:

- 1, 2, 4. MANTECA (ECA) VORTAC DECOMMISSIONED.
3. NEW CONTROLLING OBSTACLE.
5. TARGETS AND OBSTACLE GROUPER TOOL UTILIZED FOR DEPARTURE ANALYSIS.
6. UPDATED PROCEDURE EVALUATION PER 8260.46F DOCUMENTATION CRITERIA.



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

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Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
LOS ANGELES, CA	LOS ANGELES INTL	08/17/2017	14

TAKEOFF MINIMUMS:
STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 6L/R, 7L/R: CLIMB TO 2000 HEADING 071, THEN CLIMBING RIGHT TURN, THENCE...

RWY 24L/R: CLIMB TO 2000 HEADING 251, THEN CLIMBING LEFT TURN, THENCE...

RWY 25L/R: TURBOJET CLIMB TO 2000 HEADING 251, THEN CLIMBING LEFT TURN, THENCE... NON-TURBOJET CLIMB TO 2000 HEADING 251, AT THE SMO R-154 TURN LEFT HEADING 200, THENCE...

...CLIMB DIRECT SLI VORTAC, THEN CLIMB ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6L: RWY LIGHT 7 FT FROM DER, 4 FT LEFT OF CENTERLINE, 1 FT AGL/120 FT MSL. VEHICLES ON ROAD BEGINNING 12 FT FROM DER, 170 FT LEFT OF CENTERLINE, UP TO 131 FT MSL. BUILDINGS BEGINNING 1761 FT FROM DER, 920 FT LEFT OF CENTERLINE, UP TO 92 FT AGL/203 FT MSL.

NOTE: RWY 6R: NAVAID 79 FT FROM DER, 321 FT LEFT OF CENTERLINE, 20 FT AGL/123 FT MSL. NAVAID 83 FT FROM DER, 1 FT RIGHT OF CENTERLINE, 19 FT AGL/126 FT MSL. POLE AND LIGHT POLE BEGINNING 323 FT FROM DER, ON CENTERLINE, UP TO 16 FT AGL/138 FT MSL. LIGHT POLES BEGINNING 528 FT FROM DER, 58 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/137 FT MSL. POLE 779 FT FROM DER, 1 FT RIGHT OF CENTERLINE, 34 FT AGL/140 FT MSL. LIGHT POLE 779 FT FROM DER, ON CENTERLINE, 35 FT AGL/142 FT MSL. POLE 793 FT FROM DER, 459 FT RIGHT OF CENTERLINE, 39 FT AGL/145 FT MSL. APPROACH LIGHT AND LIGHT POLE BEGINNING 797 FT FROM DER, 305 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/148 FT MSL. APPROACH LIGHTS BEGINNING 1006 FT FROM DER, 697 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/149 FT MSL. TREE 1057 FT FROM DER, 400 FT LEFT OF CENTERLINE, 41 FT AGL/150 FT MSL. TREES BEGINNING 1160 FT FROM DER, 320 FT LEFT OF CENTERLINE, UP TO 49 FT AGL/157 FT MSL. TREE 1374 FT FROM DER, 309 FT LEFT OF CENTERLINE, 47 FT AGL/159 FT MSL. TREE 1385 FT FROM DER, 317 FT LEFT OF CENTERLINE, 50 FT AGL/163 FT MSL. TREE 1699 FT FROM DER, 101 FT RIGHT OF CENTERLINE, 57 FT AGL/164 FT MSL.

NOTE: RWY 7L: FENCES BEGINNING 168 FT FROM DER, 31 FT LEFT OF CENTERLINE, UP TO 14 FT AGL/107 FT MSL. FENCE AND VEHICLES ON ROAD BEGINNING 168 FT FROM DER, ON CENTERLINE, UP TO 14 FT AGL/107 FT MSL. VEHICLES ON ROAD 182 FT FROM DER, 480 FT LEFT OF CENTERLINE, 109 FT MSL. VEHICLES ON ROAD, FENCE, TOWER, RAILROAD, AND POLE BEGINNING 197 FT FROM DER, 24 FT LEFT OF CENTERLINE, UP TO 24 FT AGL/118 FT MSL. RAILROAD AND VEHICLES ON ROAD BEGINNING 309 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 117 FT MSL. RWY LIGHT, NAVAID, VEHICLES ON ROAD, AND POLE BEGINNING 444 FT FROM DER, ON CENTERLINE, UP TO 29 FT AGL/121 FT MSL. SIGN 494 FT FROM DER, 478 FT LEFT OF CENTERLINE, 32 FT AGL/124 FT MSL. SIGN AND LIGHT POLE BEGINNING 508 FT FROM DER, 263 FT LEFT OF CENTERLINE, UP TO 32 FT AGL/126 FT MSL. RWY LIGHT, POLE, AND BUILDING BEGINNING 700 FT FROM DER, 53 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/152 FT MSL.

NOTE: RWY 7R: RWY LIGHT 10 FT FROM DER, 5 FT RIGHT OF CENTERLINE, 2 FT AGL/99 FT MSL. RWY LIGHT 10 FT FROM DER, 5 FT LEFT OF CENTERLINE, 2 FT AGL/99 FT MSL. BUILDING 792 FT FROM DER, 701 FT RIGHT OF CENTERLINE, 37 FT AGL/130 FT MSL. TREE 1250 FT FROM DER, 746 FT RIGHT OF CENTERLINE, 129 FT AGL/155 FT MSL.

NOTE: RWY 24L: VEHICLES ON ROAD 1927 FT FROM DER, 1010 FT RIGHT OF CENTERLINE, 163 FT MSL. LIGHT POLE 2163 FT FROM DER, 915 FT RIGHT OF CENTERLINE, 32 FT AGL/169 FT MSL.

NOTE: RWY 24R: WINDSOCK 137 FT FROM DER, 400 FT LEFT OF CENTERLINE, 21 FT AGL/128 FT MSL. TOWER 211 FT FROM DER, 401 FT LEFT OF CENTERLINE, 66 FT AGL/151 FT MSL. TOWER 212 FT FROM DER, 402 FT LEFT OF CENTERLINE, 47 FT AGL/154 FT MSL.

NOTE: RWY 25L: VEHICLES ON ROAD 35 FT FROM DER, 422 FT LEFT OF CENTERLINE, 130 FT MSL. POLE 2365 FT FROM DER, 766 FT LEFT OF CENTERLINE, 57 FT AGL/184 FT MSL. TREE AND TRANSMISSION TOWER BEGINNING 2488 FT FROM DER, 757 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/200 FT MSL.

NOTE: RWY 25R: BUILDING 74 FT FROM DER, 364 FT LEFT OF CENTERLINE, 27 FT AGL/135 FT MSL. TREE 2959 FT FROM DER, 569 FT LEFT OF CENTERLINE, 7 FT AGL/189 FT MSL. POLE AND ANTENNA BEGINNING 3073 FT FROM DER, 212 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/203 FT MSL.

CONTROLLING OBSTACLES:
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:

RWY 6L, 6R, 7L, 7R, 24L, 24R, 25L, 25R: 10246 FT MSL AAO 341712.00N/1173918.00W.



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<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
08/17/2017	14

OFFICE SYMBOL:
AJV-5420

1. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS - NEW OBSTACLE STUDY USING CURRENT AIRNAV RUNWAY AND OBSTACLE DATA AT AIRPORT. FORMATTED IN ACCORDANCE WITH AJV DEPARTURE OBSTACLES GROUPER (1.0) SOP.
2. ADDED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT - IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D.



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: 4.09 NM AFTER HADSU/I-HUX 3.65 DME/RADAR OR AT I-HUX 0.45 DME CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 320.00 AND ON SAC VORTAC R-329 TO GRIME INT/SAC 35.22 DME AND HOLD. <u>ALTERNATE MA (DO NOT CHART):</u> CLIMB TO 2000 DIRECT MYV VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 329.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW MYV VOR/DME, RT, 147.00 INBOUND. CHART FAS OBST: 153 TREE 383855N/1213548W CHART IN PLANVIEW: MYV VOR/DME. CHART CIRCLING ICON. CHART IN PROFILE VIEW: I-HUX DME ANTENNA.					
SAC VORTAC (IAF)		ELMAC/I-HUX 10.95 DME		303.22 / 3.90				2000							
ELMAC/I-HUX 10.95 DME (IF)		HADSU/I-HUX 3.65 DME/RADAR		347.74 / 7.30 (I-HUX)				1400							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ELMAC 3. FAC: <u>347.74</u> FAF: <u>HADSU/I-HUX 3.65 DME/RADAR</u> DIST FAF TO MAP: <u>4.09</u> THLD: <u>4.09</u> 4. MIN. ALT: <u>ELMAC 2000, HADSU 1400</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: <u>1124</u> 6. MIN GS INCPT: <u>1400</u> GS ALT AT: <u>HADSU 1400</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>59.0</u> 8. MSA FROM: <u>SAC VORTAC 110-200 3100, 200-290 4100, 290-110 2700</u>										MAG VAR: 13E		EPOCH YEAR: 2020			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @			
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 34L	224	2400	200	224	2400	200	224	2400	200	224	2400	200			
S-LOC 34L	420	2400	396	420	2400	396	420	3500	396	420	4000	396			
CIRCLING	440	1	413	480	1	453	480	1 1/2	453	580	2	553			
NOTES: CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: RADAR OR DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SAC VORTAC AIRWAY RADIALS 257 CW 329. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SACRAMENTO EXECUTIVE ALTIMETER SETTING: (CONTINUED ON PAGE 2)															
CITY AND STATE SACRAMENTO, CA		ELEVATION: 27 TDZE: 24 AIRPORT NAME: SACRAMENTO INTL		FACILITY IDENTIFIER: I-HUX		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 34L, AMDT 7E 17 AUGUST 2017						SUP:			
												AMDT: 7D			
												DATED 04/30/2015			



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

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NOTES, (CONT.):

INCREASE DA TO 264 FEET; INCREASE ALL MDAS 40 FEET AND VISIBILITY CAT C AND D TO RVR 4000.

CHART NOTE: CIRCLING NA E OF RWY 16R-34L.

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

QUALITY
4
CHECKED

CITY AND STATE

SACRAMENTO, CA

ELEVATION: 27

TDZE: 24

AIRPORT NAME:

SACRAMENTO INTL

FACILITY
IDENTIFIER:

I-HUX

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 34L, AMDT 7E

17 AUGUST 2017

SUP:

AMDT: 7D

DATED: 04/30/2015

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										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	
NOTES:															
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017															
CITY AND STATE VACAVILLE, CA		ELEVATION: 117 TDZE: 117 AIRPORT NAME: NUT TREE				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 20, ORIG-A, 06/27/2013				SUP: AMDT: ORIG DATED 09/28/2006			



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		MAP: MARGR/18.96 DME									
SAC VORTAC (IAF)			BORGE/8.00 DME			241.26 / 8.00			2000		CLIMBING RIGHT TURN TO 2200 ON HEADING 100 AND SAC R-241 TO DOLCE/14.00 DME AND HOLD.									
BORGE/8.00 DME (IF)			DOLCE/14.00 DME			241.26 / 6.00 (SAC R-241)			2000											
										ADDITIONAL FLIGHT DATA: HOLD NE, RT, 241.26 INBOUND. CHART A-682. CHART CIRCLING ICON. FAC CROSSES RWY 2 2104 FT RIGHT OF THLD.										
1. PT <u>NA</u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)										MAG VAR: 17E EPOCH YEAR:1980										
2. PROFILE STARTS AT BERGE/8.00 DME																				
3. FAC <u>241.26</u> FAF <u>DOLCE/14.00 DME</u> DIST FAF TO MAP <u> </u> THLD <u> </u>																				
4. MIN. ALT <u>BORGE 2000, DOLCE 2000</u>																				
8. MSA FROM: SAC VORTAC 220-310 4100, 310-220 3100																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		@								
CATEGORY =====>		A			B			C			D			E						
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA					
CIRCLING	920	1	803	920	1	803	960	2 1/2	843	1360	3	1243								
NOTES:																				
CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.										@ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 1300-3										
CHART NOTE: DME REQUIRED.																				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SAC VORTAC AIRWAY RADIALS 137 CW 237.																				
CHART NOTE: CIRCLING RWY 2 NA AT NIGHT.																				
CHART NOTE: CIRCLING NA W OF RWY 2-20.																				
CITY AND STATE		ELEVATION: 117		TDZE:		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP VOR/DME-A								
VACAVILLE, CA						SAC		VOR-A, AMDT 6 17 AUGUST 2017				AMDT 5A								
		NUT TREE										DATE 07/23/2015								



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

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CITY AND STATE

VACAVILLE, CA

ELEVATION: 117

TDZE:

AIRPORT NAME:

NUT TREE

FACILITY
IDENTIFIER:

SAC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR-A, AMDT 6

17 AUGUST 2017

SUP: VOR/DME-A

AMDT: 5A

DATED: 07/23/2015

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 7.71 NM AFTER ROCCK INT/I-LPI 10.11 DME OR AT I-LPI 2.40 DME CLIMB TO 7200 THEN CLIMBING LEFT TURN TO 9000 ON HEADING 020 AND ON BRK VOR/DME R-091 TO ADANE INT/BRK VOR/DME 11.11 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 7200 THEN CLIMBING LEFT TURN TO 9000 ON HEADING 090 AND ON PUB VORTAC R-354 TO DRAKE INT/PUB 18.74 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 270.80 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N DRAKE INT/PUB 18.74 DME, RT, 174.19 INBOUND. FAS OBST: 6759 AAO 385230N/1044110W 7220 AAO 385709N/1044007W. 6840 AAO 385334N/1044154W. CHART VDP AT 4.83 DME* DISTANCE VDP TO THLD 2.43 NM. *LOC ONLY. CHART BRK R-091 AT ADANE. CHART IN PLANVIEW: DRAKE INT/PUB 18.74 DME. CHART CIRCLING ICON. CHART: R 2601 A/ B AND R 2602 CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.						
ADANE INT/BRK VOR/DME 11.11 DME CCW (IAF)		MOGAL INT/I-LPI 20.94 DME		11.11 DME ARC (BRK LR-350)				10000								
MOGAL INT/I-LPI 20.94 DME (IF)		AWONE INT/I-LPI 14.40 DME		172.08 / 6.54 (I-LPI)				9000								
AWONE INT/I-LPI 14.40 DME		ROCCK INT/I-LPI 10.11 DME		172.08 / 4.29 (I-LPI)				8700								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MOGAL INT/I-LPI 20.94 DME 3. FAC: 172.08 FAF: ROCCK INT/I-LPI 10.11 DME DIST FAF TO MAP: 7.71 THLD: 7.71 4. MIN. ALT: MOGAL 10000, AWONE 9000, ROCCK 8700, HUMPE INT/I-LPI 6.50 DME 7540* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: 817 GS ANT: 1201 6. MIN GS INCPT: 8700 GS ALT AT: ROCCK 8700 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 57.1 8. MSA FROM: BRK VOR/DME 325-185 9100, 185-325 15400										MAG VAR: 8E		EPOCH YEAR: 2020				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: @		LOC: #				
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 17L	6387	1800	200	6387	1800	200	6387	1800	200	6387	1800	200				
S-LOC 17L	7540	4000	1353	7540	5500	1353	7540	3	1353	7540	3	1353				
CIRCLING	7540	1 1/4	1353	7540	1 1/2	1353	7540	3	1353	7540	3	1353				
HUMPE FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)																
S-LOC 17L	7020	2400	833	7020	4000	833	7020	1 7/8	833	7020	1 7/8	833				
CIRCLING	7020	1 1/4	833	7020	1 1/4	833	7040	2 1/2	853	7260	2 1/2	1073				
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 17R. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADANE ON V389 SOUTHBOUND. CHART PROFILE NOTE: USE I-LPI 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: 6187 TDZE: 6187				FACILITY IDENTIFIER: I-LPI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
COLORADO SPRINGS, CO		AIRPORT NAME:				CITY OF COLORADO SPRINGS MUNI		ILS OR LOC RWY 17L, AMDT 3A; ILS RWY 17L (SA CAT I), ILS RWY 17L (SA CAT II)				AMDT: 3				
								17 AUGUST 2017				DATED 05/26/2016				



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.

NOTES, (CONT.):

SA CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS 17L: CAT A, B, C, D, RA
105 RVR 1600, HAT 100, DA 6287 MSL.

SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS 17L: CAT A, B, C, D, RA
169, RVR 1400, HAT 150, DA 6337 MSL.

SA CAT I CHART NOTE: REQUIRED 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.

CITY AND STATE

COLORADO SPRINGS, CO

ELEVATION: 6187

TDZE: 6187

AIRPORT NAME:

CITY OF COLORADO SPRINGS MUNI

FACILITY
IDENTIFIER:

I-LPI

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 17L, AMDT 3A; ILS RWY 17L (SA CAT I),
ILS RWY 17L (SA CAT II)
17 AUGUST 2017

SUP:

AMDT: 3

DATED: 05/26/2016

QUALITY
31
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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.96 NM AFTER PETEY LOM CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 ON HEADING 047 AND ON BRK VOR/DME R-091 TO ADANE INT/BRK 11.11 DME AND HOLD. <u>ALTERNATE MA (DO NOT CHART):</u> CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 ON (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: HOLD E, LT, 270.80 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N DRAKE INT/PUB 18.74 DME, RT, 174.19 INBOUND. FAS OBST: 6075 R35L THLD 384738N/1044257W CHART R-2601. CHART BRK R-145 AT DRAKE. CHART CIRCLING ICON. CHART BRK R-182 AT MIDAY					
DRAKE INT/BRK 22.71 DME CW (IAF)		MIDAY INT/PUB 21.41 DME		22.71 DME ARC (BRK LR-176)				8100							
PUB VORTAC (IAF)		MIDAY INT/PUB 21.41 DME		312.93 / 21.41				8100							
MIDAY INT/PUB 21.41 DME (IF)		PETEY LOM		352.05 / 7.38 (I-COS)				8100							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MIDAY 3. FAC: 352.05 FAF: PETEY LOM DIST FAF TO MAP: 5.96 THLD: 5.96 4. MIN. ALT: MIDAY 8100, PETEY LOM 8100 5. DIST TO THLD FROM OM: 5.96 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 915 6. MIN GS INCPT: 8100 GS ALT AT: - OM: 8028 MM: - IM: - 7. GS ANGLE: 3.00 TCH: 55.1 8. MSA FROM: CO LOM 071-201 8100, 201-341 15400, 341-071 9100										MAG VAR: 8E		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 35L*	6275	2400	200	6275	2400	200	6275	2400	200	6275	2400	200			
S-LOC 35L	6520	2400	445	6520	2400	445	6520	4500	445	6520	4500	445			
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073			
NOTES: CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: RADAR MONITORING REQUIRED WHEN R-2601 IN USE. CHART NOTE: * RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354.										# CAT B 700-2, CAT C 900-2 1/2, CAT D 1100-3 @ CAT C 900-2 1/2, CAT D 1100-3					
CITY AND STATE COLORADO SPRINGS, CO		ELEVATION: 6187 TDZE: 6075 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI		FACILITY IDENTIFIER: I-COS		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35L, AMDT 38A 17 AUGUST 2017						SUP:			
												AMDT: 38			
												DATED 05/26/2016			



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.):
HEADING 112 AND ON PUB VORTAC R-354 TO DRAKE INT/PUB 18.74 DME AND HOLD.



CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 TDZE: 6075 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	FACILITY IDENTIFIER: I-COS	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35L, AMDT 38A 17 AUGUST 2017	SUP:
				AMDT: 38
				DATED: 05/26/2016

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: 6.10 NM AFTER CEGIX INT/I-AHI 5.92 DME CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 ON HEADING 047 AND ON BRK VOR/DME R-091 TO ADANE INT/BRK 11.11 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 ON HEADING 112 AND ON PUB VORTAC R-354 TO DRAKE INT/PUB 18.74 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 270.80 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N DRAKE INT/PUB 18.74 DME, RT, 174.19 INBOUND. FAS OBST: 6118 R35R THLD 384645N/1044109W CHART R-2601. CHART BRK R-145 AT DRAKE. CHART IN PROFILE: I-AHI DME ANTENNA CHART VDP AT 0.59 DME*, DISTANCE VDP TO THLD 0.77 MILES. CHART BRK R-178 AT FALUR. *LOC ONLY CHART CIRCLING ICON.											
DRAKE INT/BRK 22.71 DME CW (IAF)	FALUR INT/I-AHI 12.47 DME	22.71 DME ARC (BRK LR-173)	8100												
PUB VORTAC (IAF)	FALUR INT/I-AHI 12.47 DME	315.67 / 20.39	8100												
FALUR INT/I-AHI 12.47 DME (IF)	CEGIX INT/I-AHI 5.92 DME	352.08 / 6.55 (I-AHI)	8100												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FALUR 3. FAC: <u>352.08</u> FAF: <u>CEGIX INT/I-AHI 5.92 DME</u> DIST FAF TO MAP: <u>6.10</u> THLD: <u>6.10</u> 4. MIN. ALT: FALUR 8100, CEGIX 8100 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ - 150 HAT: _____ - 100 HAT: _____ - GS ANT: 960 6. MIN GS INCPT: <u>8100</u> GS ALT AT: <u>CEGIX 8100</u> OM: _____ - _____ MM: _____ - _____ IM: _____ - 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9</u> 8. MSA FROM: BRK VORTAC 325-185 9100, 185-325 15400				MAG VAR: 8E EPOCH YEAR: 2020											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: STANDARD # LOC: STANDARD @									
CATEGORY ==>	A		B		C		D		E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 35R	6318	4000	200	6318	4000	200	6318	4000	200	6318	4000	200			
S-LOC 35R	6420	5500	302	6420	5500	302	6420	4500	302	6420	4500	302			
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073			
NOTES: CHART PROFILE NOTE: USE I-AHI DME WHEN ON THE LOCALIZER COURSE. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PUB VORTAC AIRWAY RADIALS 267 CW 354. CHART NOTE: RADAR REQUIRED WHEN R-2601 IN USE.															
CITY AND STATE COLORADO SPRINGS, CO		ELEVATION: 6187 TDZE: 6118 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI		FACILITY IDENTIFIER: I-AHI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35R, AMDT 2A 17 AUGUST 2017				SUP:					
										AMDT: 2					
										DATED 05/26/2016					



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: 5.96 NM AFTER PETEY LOM CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 ON HEADING 051 AND ON BRK VOR/DME R-091 TO ADANE INT/BRK 11.11 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 ON HEADING 104 AND ON PUB VORTAC R-354 TO DRAKE INT/PUB 18.74 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 270.80 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N DRAKE INT/PUB 18.74 DME, RT, 174.19 INBOUND. CHART FAS OBST: 6228 POLE 384646N/1044133W CHART R-2601. CHART IN PLANVIEW: DRAKE INT/PUB 18.74 DME. CHART CIRCLING ICON. CHART 10800 PRIOR TO PETEY LOM IN PROFILE. PETEY LOM TO RWY 35L: 2.98/71.1						
BRK VOR/DME		PETEY LOM		186.55 / 15.49				11000								
PUB VORTAC (IAF)		MIDAY INT/PUB 21.41 DME		312.93 / 21.41				8000								
MIDAY INT/PUB 21.41 DME (IF)		PETEY LOM		351.94 / 7.38				8000								
1. PT <u> L </u> SIDE OF COURSE <u> 171.94 </u> OUTBOUND <u> 8000 </u> FT WITHIN <u> 10 </u> MILES OF <u> PETEY LOM </u> (IAF) 2. _____ 3. FAC <u> 352.18 </u> FAF <u> PETEY LOM </u> DIST FAF TO MAP <u> 5.96 </u> THLD <u> 5.96 </u> 4. MIN. ALT <u> PETEY LOM 8000 </u> 8. MSA FROM: <u> CO LOM 071-201 8100, 201-341 15400, 341-071 9100 </u>										MAG VAR: 8E		EPOCH YEAR: 2020				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @						
CATEGORY =====>		A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-35L	6540	4000	465	6540	4000	465	6540	5000	465	6540	5000	465				
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073				
NOTES: CHART NOTE: RADAR MONITORING REQUIRED WHEN R-2601 IN USE. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-35L CATS C AND D VISIBILITY TO 1 3/8 MILE.																
CITY AND STATE COLORADO SPRINGS, CO		ELEVATION: 6187 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI		TDZE: 6075		FACILITY IDENTIFIER: CO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 35L, AMDT 27A 17 AUGUST 2017				SUP				
												AMDT 27				
												DATE 05/26/2016				

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: RW31 LNAV: RW31 CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 DIRECT ADANE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 295.97 INBOUND. CHART FAS OBST: 6292 ASR 384802N/10444042W CHART R-2601. CHART VDP AT 0.78 NM TO RW31. WAAS CHANNEL # 40040 REFERENCE PATH ID: W31A CHART CIRCLING ICON. JATOL TO RW31 3.04/52 CHART FAS OBST: 6148 POLE 384805N/1044105W LTP HAE: 1852.1 M														
ADANE				ZENER (TF) (FB) (RNP 2.00)				174.21 / 11.86				9400																
PUB VORTAC				ONKIE (TF) (FB) (RNP 2.00)				340.47 / 18.39				9400																
ONKIE (IAF)				NUTVE (TF) (FB) (RNP 1.00)				340.42 / 5.00				8600																
ZENER (IAF)				NUTVE (TF) (FB) (RNP 1.00)				238.16 / 6.18				8600																
NUTVE (IF)				JATOL (TF) (FB) (RNP 1.00)				307.20 / 6.10				7800																
(SEE FORM 8260-10)																												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NUTVE 3. FAC: 307.14 FAF: JATOL DIST FAF TO MAP: 5.00 THLD: 5.00 4. MIN. ALT: NUTVE 8600, JATOL 7800 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 15400																	MAG VAR: 8E EPOCH YEAR: 2020											
MINIMUMS																												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																	ALTERNATE: N A			STANDARD @								
CATEGORY ==>		A			B			C			D			E														
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA										
LP MDA	6440	1	284	6440	1	284	6440	7/8	284	6440	7/8	284																
LNAV MDA	6560	1	404	6560	1	404	6560	1 1/8	404	6560	1 1/8	404																
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073																
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADANE ON V108 EASTBOUND.																			@ CAT C 900-2 1/2, CAT D 1100-3								QUALITY 16 CHECKED	
CITY AND STATE				ELEVATION: 6187 TDZE: 6156				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:							SUP:									
COLORADO SPRINGS, CO				AIRPORT NAME:				CITY OF COLORADO SPRINGS MUNI				RNAV (GPS) RWY 31, AMDT 2A							AMDT: 2									
												17 AUGUST 2017							DATED 05/26/2016									

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

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TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
JATOL (FAF)	RW31 (MAP) (TF) (FO) (RNP 0.30)	307.14 / 5.00	
RW31 (MAP)	6700 MSL (CA)	307.14	6700
6700 MSL	ADANE (DF) (FO) (RNP 1.00)		9000

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187	TDZE: 6156	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 2A 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 2
	CITY OF COLORADO SPRINGS MUNI				DATED: 05/26/2016

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOS
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	384827.9870N
LTP/FTP LONGITUDE	1044144.7060W
LTP/FTP ELLIPSOIDAL HEIGHT	+18521
FPAP LATITUDE	384931.1425N
FPAP LONGITUDE	1044305.1990W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0336
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 919CF8D8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+18699
FPAP ORTHOMETRIC HEIGHT	+18699

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 TDZE: 6156 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 2A 17 AUGUST 2017	SUP:
				AMDT: 2
				DATED: 05/26/2016

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: RW17L CLIMB TO 9000 DIRECT CEGIX AND ON TRACK 100.25 TO DRAKE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.19 INBOUND. FAS OBST: 6740 AAO 385228N/1044110W DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 2.37 NM TO RW17L* *LNAV ONLY. WAAS CHANNEL # 69618 REFERENCE PATH ID: W17A 6840 AAO 385327N/1044117W 7199 AAO 385657N/1044003W. CHART CIRCLING ICON. LTP HAE: 1868 M							
LUFSE		OLAPE (TF) (FB) (RNP 2.00)		197.33 / 10.95				10000									
ADANE		OLAPE (TF) (FB) (RNP 2.00)		325.32 / 8.91				10000									
OLAPE (IAF)		NUBSE (TF) (FB) (RNP 1.00)		257.25 / 9.47				9500									
NUBSE (IF)		ROCCK (TF) (FB) (RNP 1.00)		171.50 / 5.43				8700									
ROCCK (FAF)		JESLO/4.20 NM TO RW17L (TF) (FB) (RNP 0.30)		172.08 / 3.51													
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NUBSE _____ 3. FAC: 172.08 FAF: ROCCK _____ DIST FAF TO MAP: 7.71 THLD: 7.71 4. MIN. ALT: NUBSE 9500, ROCCK 8700, JESLO/4.20 NM TO RW17L 7580* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 8700 GS ALT AT: ROCCK 8700 _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 57.1 34:1 IS CLEAR 8. MSA FROM: RW17L 15400										MAG VAR: 8E		EPOCH YEAR: 2020					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A							
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	6387	2400	200	6387	2400	200	6387	2400	200	6387	2400	200					
LNAV/VNAV DA	6602	4500	415	6602	4500	415	6602	4500	415	6602	4500	415					
LNAV MDA	7000	2400	813	7000	4000	813	7000	1 7/8	813	7000	1 7/8	813					
CIRCLING	7000	1 1/4	813	7000	1 1/4	813	7040	2 1/2	853	7260	3	1073					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 44C (112F). @ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 1100-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LUFSE ON V611 NORTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADANE ON V108 EASTBOUND. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 6187 TDZE: 6187				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:			
COLORADO SPRINGS, CO		AIRPORT NAME:						RNAV (GPS) Y RWY 17L, AMDT 3A						AMDT: 3			
		CITY OF COLORADO SPRINGS MUNI						17 AUGUST 2017						DATED 05/26/2016			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
JESLO/4.20 NM TO RW17L	RW17L (MAP) (TF) (FO) (RNP 0.30)	172.08 / 4.20	
RW17L (MAP)	6387 MSL (CA)	172.08	
6387 MSL	CEGIX (DF) (FB) (RNP 1.00)		
CEGIX	DRAKE (TF) (FO) (RNP 1.00)	100.25 / 13.46	9000

NOTES, (CONT.):

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

*LNAV ONLY

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT LUFSE ON V611 NORTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT ADANE ON V108 EASTBOUND.

CHART NOTE: CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT C/D VISIBILITY TO 2 1/2 SM.

QUALITY
16
CHECKED

CITY AND STATE

COLORADO SPRINGS, CO

ELEVATION: 6187

TDZE: 6187

AIRPORT NAME:

CITY OF COLORADO SPRINGS MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 17L, AMDT 3A

17 AUGUST 2017

SUP:

AMDT: 3

DATED: 05/26/2016

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOS
RUNWAY	RW17L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	384857.9120N
LTP/FTP LONGITUDE	1044108.6415W
LTP/FTP ELLIPSOIDAL HEIGHT	+18680
FPAP LATITUDE	384644.4700N
FPAP LONGITUDE	1044108.8695W
THRESHOLD CROSSING HEIGHT (TCH)	00057.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	115.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 278DAE80

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+18858
FPAP ORTHOMETRIC HEIGHT	+18858

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 TDZE: 6187 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17L, AMDT 3A 17 AUGUST 2017	SUP:
				AMDT: 3
				DATED: 05/26/2016

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: RW17R CLIMB TO 7000 THEN CLIMBING LEFT TURN TO 9000 DIRECT DRAKE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.19 INBOUND. CHART FAS OBST: 6429 TREE 385043N/1044219W 7239 AAO 385632N/1044242W CHART: 6469 BLDG 385143N/1044218W CHART A-639 A/B. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.40 NM TO RW17R* *LNAV ONLY. WAAS CHANNEL # 72800 REFERENCE PATH ID: W17B CHART CIRCLING ICON. CHART R-2601 LTP HAE: 1865 M					
LUFSE		HIDAN (TF) (FB) (RNP 2.00)		212.42 / 12.57				10000							
ADANE		HIDAN (TF) (FB) (RNP 2.00)		309.99 / 11.15				10000							
PUB VORTAC		HIDAN (TF) (FB) (RNP 2.00)		344.44 / 45.94				10000							
HIDAN (IAF)		FEBLA (TF) (FB) (RNP 1.00)		260.61 / 7.34				9500							
FEBLA (IF)		CEMKA (TF) (FB) (RNP 1.00)		172.04 / 5.85				8700							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FEBLA 3. FAC: 172.06 FAF: CEMKA DIST FAF TO MAP: 7.75 THLD: 7.75 4. MIN. ALT: FEBLA 9500, CEMKA 8700, JIBIS/4.80 NM TO RW17R 7760*, KAGHU/3.20 NM TO RW17R 7240*, (SEE FORM 8260-10) 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 8700 GS ALT AT: CEMKA 8700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.3 34:1 IS CLEAR 8. MSA FROM: RW17R 15400															
										MAG VAR: 8E			EPOCH YEAR: 2020		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @					
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	6377	4000	200	6377	4000	200	6377	4000	200	6377	4000	200			
LNAV/VNAV DA	6752	2	575	6752	2	575	6752	2	575	6752	2	575			
LNAV MDA	6680	5500	503	6680	5500	503	6680	1 3/8	503	6680	1 3/8	503			
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). @ CAT C 900-2 1/2, CAT D 1100-3 CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 17L AND ILS RWY 17L (SA CAT I). (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 6187 TDZE: 6177				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
COLORADO SPRINGS, CO		AIRPORT NAME:				RNAV		RNAV (GPS) Y RWY 17R, AMDT 3A				AMDT: 3			
		CITY OF COLORADO SPRINGS MUNI						17 AUGUST 2017				DATED 05/26/2016			



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

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LINE 4, (CONT.):

LAXLY/2.00 NM TO RW17R 6860*, 6680*

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CEMKA (FAF)	JIBIS/4.80 NM TO RW17R (TF) (FB) (RNP 0.30)	172.06 / 2.95	
JIBIS/4.80 NM TO RW17R	KAGHU/3.20 NM TO RW17R (TF) (FB) (RNP 0.30)	172.06 / 1.60	
KAGHU/3.20 NM TO RW17R	LAXLY/2.00 NM TO RW17R (TF) (FB) (RNP 0.30)	172.06 / 1.20	
LAXLY/2.00 NM TO RW17R	RW17R (MAP) (TF) (FO) (RNP 0.30)	172.06 / 2.00	
RW17R (MAP)	7000 MSL (CA)	172.06	7000
7000 MSL	DRAKE (DF) (FO) (RNP 1.00)		9000

NOTES, (CONT.):

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADANE ON V108 EASTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LUFSE ON V611 NORTHEAST BOUND.

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187	TDZE: 6177	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17R, AMDT 3A 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 3
	CITY OF COLORADO SPRINGS MUNI				DATED: 05/26/2016

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOS
RUNWAY	RW17R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17B
LTP/FTP LATITUDE	384926.6740N
LTP/FTP LONGITUDE	1044257.2250W
LTP/FTP ELLIPSOIDAL HEIGHT	+18650
FPAP LATITUDE	384757.4875N
FPAP LONGITUDE	1044257.3450W
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	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 EFA5B563

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+18826
FPAP ORTHOMETRIC HEIGHT	+18826

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 TDZE: 6177 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17R, AMDT 3A 17 AUGUST 2017	SUP:
				AMDT: 3
				DATED: 05/26/2016

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: RW35L CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 DIRECT ADANE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 295.97 INBOUND. FAS OBST: 6169 TREE 384738N/1044217W DISTANCE TO THLD FROM 200 HAT: 0.55 NM. CHART VDP AT 1.01 NM TO RW35L* *LNAV ONLY. WAAS CHANNEL # 49112 REFERENCE PATH ID: W35A CHART CIRCLING ICON. CHART R-2601 LTP HAE: 1824.9 M											
DRAKE				ASHLL (TF) (FB) (RNP 2.00)				233.95 / 8.87				8100													
ASHLL (IAF)				MIDAY (TF) (FB) (RNP 1.00)				279.83 / 6.71				8100													
PUB VORTAC (IAF)				MIDAY (TF) (FB) (RNP 1.00)				312.93 / 21.41				8100													
MIDAY (IF)				KUSAC (TF) (FB) (RNP 1.00)				352.05 / 7.07				8100													
KUSAC (FAF)				RW35L (MAP) (TF) (FO) (RNP 0.30)				352.05 / 6.28																	
(SEE FORM 8260-10)																									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT MIDAY 3. FAC: 352.05 FAF: KUSAC DIST FAF TO MAP: 6.28 THLD: 6.28 4. MIN. ALT: MIDAY 8100, KUSAC 8100 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 8100 GS ALT AT: KUSAC 8100 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.1 34:1 IS CLEAR 8. MSA FROM: RW35L 15400																MAG VAR: 8E EPOCH YEAR: 2020									
MINIMUMS																									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @															
CATEGORY =====>		A			B			C			D			E											
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA										
LPV DA	6275	2400	200	6275	2400	200	6275	2400	200	6275	2400	200													
LNAV/VNAV DA	6380	3000	305	6380	3000	305	6380	3000	305	6380	3000	305													
LNAV MDA	6440	2400	365	6440	2400	365	6440	3500	365	6440	3500	365													
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073													
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). @ CAT C 900-2 1/2, CAT D 1100-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRAKE ON V83-389 NORTHBOUND AND V83 SOUTHEAST (CONTINUED ON PAGE 2)																									
CITY AND STATE				ELEVATION: 6187 TDZE: 6075				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
COLORADO SPRINGS, CO				AIRPORT NAME:								RNAV (GPS) Y RWY 35L, AMDT 1A				AMDT: 1									
				CITY OF COLORADO SPRINGS MUNI								17 AUGUST 2017				DATED 05/26/2016									

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW35L (MAP)	6700 MSL (CA)	352.05	6700
6700 MSL	ADANE (DF) (FO) (RNP 1.00)		9000

NOTES, (CONT.):
BOUND.

CHART NOTE: FOR INOPERATIVE MALSR INCREASE LNAV CAT C AND D VISIBILITY TO RVR 5500.

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

CHART NOTE: RADAR MONITORING REQUIRED WHEN R-2601 IN USE.

QUALITY
16
CHECKED

CITY AND STATE

COLORADO SPRINGS, CO

ELEVATION: 6187

TDZE: 6075

AIRPORT NAME:

CITY OF COLORADO SPRINGS MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 35L, AMDT 1A

17 AUGUST 2017

SUP:

AMDT: 1

DATED: 05/26/2016

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOS
RUNWAY	RW35L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	384737.7635N
LTP/FTP LONGITUDE	1044257.3635W
LTP/FTP ELLIPSOIDAL HEIGHT	+18249
FPAP LATITUDE	384926.6740N
FPAP LONGITUDE	1044257.2430W
THRESHOLD CROSSING HEIGHT (TCH)	00055.1
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>	 07346D99

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+18426
FPAP ORTHOMETRIC HEIGHT	+18426

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	TDZE: 6075 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35L, AMDT 1A 17 AUGUST 2017	SUP:
				AMDT: 1
				DATED: 05/26/2016

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: RW35R CLIMB TO 6600 THEN CLIMBING RIGHT TURN TO 9000 DIRECT ADANE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 295.97 INBOUND. CHART FAS OBST: 6228 POLE 384646N/1044133W CHART R-2601. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.02 NM TO RW35R* *LNAV ONLY. WAAS CHANNEL # 53602 REFERENCE PATH ID: W35B CHART CIRCLING ICON. LTP HAE: 1842.2 M						
PUB VORTAC		HABUK (TF) (FB) (RNP 2.00)		327.78 / 14.39				8400								
DRAKE		HABUK (TF) (FB) (RNP 2.00)		221.77 / 8.67				8100								
HABUK (IAF)		FALUR (TF) (FB) (RNP 1.00)		290.06 / 7.00				8100								
FALUR (IF)		CEGIX (TF) (FB) (RNP 1.00)		352.08 / 6.55				8100								
CEGIX (FAF)		RW35R (MAP) (TF) (FO) (RNP 0.30)		352.08 / 6.10												
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FALUR 3. FAC: 352.08 FAF: CEGIX DIST FAF TO MAP: 6.10 THLD: 6.10 4. MIN. ALT: FALUR 8100, CEGIX 8100 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 8100 GS ALT AT: CEGIX 8100 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR 8. MSA FROM: RW35R 15400																
										MAG VAR: 8E			EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @						
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	6318	4000	200	6318	4000	200	6318	4000	200	6318	4000	200				
LNAV/VNAV DA	6399	4500	281	6399	4500	281	6399	4500	281	6399	4500	281				
LNAV MDA	6500	5500	382	6500	5500	382	6500	6000	382	6500	6000	382				
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 39C (103F). @ CAT C 900-2 1/2, CAT D 1100-3 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRAKE ON V83 SOUTHEAST BOUND. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 6187 TDZE: 6118				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
COLORADO SPRINGS, CO		AIRPORT NAME:				CITY OF COLORADO SPRINGS MUNI		RNAV (GPS) Y RWY 35R, AMDT 4A				AMDT: 4				
								17 AUGUST 2017				DATED 05/26/2016				

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW35R (MAP)	6600 MSL (CA)	352.08	6000
6600 MSL	ADANE (DF) (FO) (RNP 1.00)		9000

NOTES, (CONT.):

CHART NOTE: RADAR MONITORING REQUIRED WHEN R-2601 IN USE.

QUALITY
16
CHECKED

CITY AND STATE

COLORADO SPRINGS, CO

ELEVATION: 6187

TDZE: 6118

AIRPORT NAME:

CITY OF COLORADO SPRINGS MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 35R, AMDT 4A
17 AUGUST 2017

SUP:

AMDT: 4

DATED: 05/26/2016

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOS
RUNWAY	RW35R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35B
LTP/FTP LATITUDE	384644.4700N
LTP/FTP LONGITUDE	1044108.8695W
LTP/FTP ELLIPSOIDAL HEIGHT	+18422
FPAP LATITUDE	384857.9120N
FPAP LONGITUDE	1044108.6315W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	115.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	D7BE0F0D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+18602
FPAP ORTHOMETRIC HEIGHT	+18602

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 TDZE: 6118 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35R, AMDT 4A 17 AUGUST 2017	SUP:
				AMDT: 4
				DATED: 05/26/2016

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 9000 ON TRACK 172.08 TO CEGIX AND ON TRACK 130.29 TO JEMKI AND ON TRACK 083.58 TO DRAKE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.19 INBOUND. DISTANCE TO THLD FROM 370 HAT: 0.98 NM. #TCH 6244.2 (DO NOT CHART) ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S									
LUFSE (IAF)		JONOL (TF) (FB) (RNP 1.00)		228.39 / 15.27				9100											
FSHER (IAF)		WIPUN (TF) (FB) (RNP 1.00)		002.08 / 34.43				10000											
ADANE (IAF)		REEFF (TF) (FB) (RNP 1.00)		295.05 / 4.80				9000											
JONOL (IF)		ROCCK (TF) (FB) (RNP 1.00)		182.04 / 7.77				8700											
REEFF (IF)		SOGKO (TF) (FB) (RNP 1.00)		295.45 / 4.16				9000											
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ROCCK _____ 3. FAC: 172.08 FAF: ROCCK _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: ROCCK 8700 _____ 5. DIST TO THLD FROM OM: 7.71 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 8700 GS ALT AT: ROCCK 8700 _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 57.1 # 34:1 IS CLEAR _____ 8. MSA FROM: RW17L 15400 _____																MAG VAR: 8E		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD									
CATEGORY =====>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
AUTHORIZATION REQUIRED																			
RNP 0.15 DA	6557	4000	370	6557	4000	370	6557	4000	370	6557	4000	370							
RNP 0.25 DA	6644	5000	457	6644	5000	457	6644	5000	457	6644	5000	457							
RNP 0.30 DA	6920	2	733	6920	2	733	6920	2	733	6920	2	733							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -21C (-5F) OR ABOVE 44C (112F). CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LUFSE ON V611 NORTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FSHER ON V244 WESTBOUND. (CONTINUED ON PAGE 2)																			
CITY AND STATE COLORADO SPRINGS, CO		ELEVATION: 6187 TDZE: 6187 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 17L, AMDT 2A 17 AUGUST 2017				SUP: AMDT: 2 DATED 05/26/2016							



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	
WIPUN (IF)	ZIVAD (TF) (FB) (RNP 1.00)	352.08 / 3.85	9000		
ZIVAD	SOGKO (RF) (FB) (RNP 1.00)	(4.19 NM RADIUS CCW (CFBWT))/4.14	9000		
SOGKO	ROCCK (RF) (FB) (RNP 1.00)	(3.82 NM RADIUS CCW (CFBWR))/8.21	8700		
ROCCK (FAF)	RW17L (MAP) (TF) (FO)	172.08 / 7.71			
RW17L (MAP)	CEGIX (TF) (FB) (RNP 1.00)	172.08 / 8.32			
CEGIX	JEMKI (TF) (FB) (RNP 1.00)	130.29 / 5.31			
JEMKI	DRAKE (TF) (FO) (RNP 1.00)	083.58 / 9.25	9000		
NOTES, (CONT.):					
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADANE ON V108 EASTBOUND.					
CHART PLANVIEW NOTE ADJACENT TO FISHR IAF: RF REQUIRED.					
CHART PLANVIEW NOTE ADJACENT TO ADANE IAF: RF REQUIRED.					
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).					
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.					
CHART SPEED ICON IN PLANVIEW AT SOGKO: MAX 180 KIAS					
CHART SPEED ICON IN PLANVIEW AT ZIVAD: MAX 180 KIAS					
CITY AND STATE		ELEVATION: 6187	TDZE: 6187	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
COLORADO SPRINGS, CO		AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 17L, AMDT 2A
		CITY OF COLORADO SPRINGS MUNI			17 AUGUST 2017
					SUP:
					AMDT: 2
					DATED: 05/26/2016



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 9000 ON TRACK 172.05 TO KUSAC AND ON TRACK 125.34 TO JEMKI AND ON TRACK 83.58 TO DRAKE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.19 INBOUND. DISTANCE TO THLD FROM 482 HAT: 1.34 NM. ROUTE TYPE: A,H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 6231.9 MSL (DO NOT CHART) CHART R-2601					
PUB VORTAC (IAF)		FRANO (TF) (FB) (RNP 1.00)		342.44 / 33.81				10000							
FRANO (IF)		HOKOS (TF) (FB) (RNP 1.00)		352.05 / 5.85				9000							
HOKOS		OKEFA (RF) (FB) (RNP 1.00)		(4.18 NM RADIUS CCW (CFCDS))/4.27				9000							
ADANE (IAF)		TEXCO (TF) (FB) (RNP 1.00)		293.25 / 6.40				9000							
TEXCO (IF)		OKEFA (TF) (FB) (RNP 1.00)		293.51 / 4.16				9000							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT CEMKA 3. FAC: 172.06 FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: CEMKA 8700 5. DIST TO THLD FROM OM: 7.75 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 8700 GS ALT AT: CEMKA 8700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.3 # 34:1 IS CLEAR 8. MSA FROM: RW17R 15400															
										MAG VAR: 8E			EPOCH YEAR: 2020		
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
AUTHORIZATION REQUIRED															
RNP 0.22 DA	6659	1 5/8	482	6659	1 5/8	482	6659	1 5/8	482	6659	1 5/8	482			
RNP 0.30 DA	6902	2 1/2	725	6902	2 1/2	725	6902	2 1/2	725	6902	2 1/2	725			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -21C (-5F) OR ABOVE 45C (113F). @ CAT A, B, C, D 800-2 1/2 CHART NOTE: GPS REQUIRED. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 6187 TDZE: 6177				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
COLORADO SPRINGS, CO		AIRPORT NAME:						RNAV (RNP) Z RWY 17R, AMDT 1A				AMDT: 1			
		CITY OF COLORADO SPRINGS MUNI						17 AUGUST 2017				DATED 05/26/2016			



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	
LUFSE (IAF)	ZUNAK (TF) (FB) (RNP 0.70)	231.64 / 15.55	9100	
ZUNAK (IF)	CEMKA (TF) (FB) (RNP 0.70)	186.96 / 8.00	8700	
OKEFA	CEMKA (RF) (FB) (RNP 1.00)	(3.81 NM RADIUS CCW (CFCDR))/8.07	8700	
CEMKA (FAF)	RW17R (MAP) (TF) (FO)	172.06 / 7.75		
RW17R (MAP)	KUSAC (TF) (FB) (RNP 1.00)	172.05 / 8.09		
KUSAC	JEMKI (TF) (FB) (RNP 1.00)	125.34 / 6.81		
JEMKI	DRAKE (TF) (FO) (RNP 1.00)	83.58 / 9.25	9000	
NOTES, (CONT.): CHART PLANVIEW NOTE ADJACENT TO ADANE IAF: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO PUB VORTAC IAF: RF REQUIRED. CHART PLANVIEW NOTE AT LUFSE: RNP (0.70). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354. PROCEDURE NA FOR ARRIVALS AT ADANE ON V108 EASTBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LUFSE ON V611 NORTH EAST BOUND. CHART SPEED ICON IN PLANVIEW AT HOKOS: MAX 180 KIAS. CHART SPEED ICON IN PLANVIEW AT OKEFA: MAX 180 KIAS.				
CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	TDZE: 6177	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 17R, AMDT 1A 17 AUGUST 2017
				SUP:
				AMDT: 1
				DATED: 05/26/2016



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 9000 ON TRACK 352.05 TO ZAMLO AND ON TRACK 037.00 TO JEPMA AND ON TRACK 117.55 TO ADANE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 295.97 INBOUND. DISTANCE TO THLD FROM 297 HAT: 0.85 NM. CHART R-2601 ROUTE TYPE: A,H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 6100.3 MSL (DO NOT CHART)										
FSHER (IAF)		MIDAY (TF) (FB) (RNP 1.00)		340.36 / 16.00			9000												
DRAKE (IAF)		WOVID (TF) (FB) (RNP 1.00)		272.52 / 8.01			9000												
MIDAY (IF)		KUSAC (TF) (FB) (RNP 1.00)		352.05 / 7.07			8100												
WOVID (IF)		HUNSI (TF) (FB) (RNP 1.00)		272.41 / 4.09			9000												
HUNSI		KUSAC (RF) (FB) (RNP 1.00)		(2.79 NM RADIUS CW (CFCDP))/3.88			8100												
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT KUSAC 3. FAC: 352.05 FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: KUSAC 8100 5. DIST TO THLD FROM OM: 6.28 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: KUSAC 8100 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.1 # 34:1 IS CLEAR 8. MSA FROM: RW35L 15400																MAG VAR: 8E		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD									
CATEGORY ==>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
AUTHORIZATION REQUIRED																			
RNP 0.15 DA	6372	3000	297	6372	3000	297	6372	3000	297	6372	3000	297							
RNP 0.30 DA	6427	4000	352	6427	4000	352	6427	4000	352	6427	4000	352							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -21C (-5F) OR ABOVE 45C (113F). CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE ADJACENT TO DRAKE IAF: RF REQUIRED. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 6187 TDZE: 6075				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
COLORADO SPRINGS, CO		AIRPORT NAME:						RNAV (RNP) Z RWY 35L, AMDT 1A				AMDT: 1							
		CITY OF COLORADO SPRINGS MUNI						17 AUGUST 2017				DATED 05/26/2016							



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	
KUSAC (FAF)	RW35L (MAP) (FO) (TF)	352.05 / 6.28		
RW35L (MAP)	ZAMLO (TF) (FB) (RNP 1.00)	352.05 / 8.23		
ZAMLO	JEPMA (TF) (FB) (RNP 1.00)	037.00 / 8.0		
JEPMA	ADANE (TF) (FO) (RNP 1.00)	117.55 / 11.27	9000	
NOTES, (CONT.):				
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRAKE ON V83 SOUTHEAST BOUND AND V389 SOUTHBOUND.				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FSHER ON V244 EASTBOUND.				
CHART NOTE: FOR INOPERATIVE MALSR INCREASE RNP 0.15 VISIBILITY ALL CATS TO RVR 5000.				
CHART NOTE: RADAR MONITORING REQUIRED WHEN R-2601 IN USE.				
CHART SPEED ICON IN PLANVIEW AT HUNSI: MAX 180 KIAS.				
QUALITY 30 CHECKED				
CITY AND STATE	ELEVATION: 6187	TDZE: 6075	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
COLORADO SPRINGS, CO	AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 35L, AMDT 1A
	CITY OF COLORADO SPRINGS MUNI			17 AUGUST 2017
			SUP:	
			AMDT:	1
			DATED:	05/26/2016

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							
FSHER (IAF)		FALUR (TF) (FB) (RNP 1.00)		345.31 / 15.59				9000		CLIMB TO 9000 ON TRACK 352.07 TO HONPI AND TRACK 037.00 TO COTLA AND TRACK 114.45 TO ADANE AND HOLD.							
FALUR (IF)		CEGIX (TF) (FB) (RNP 1.00)		352.08 / 6.55				8100									
DRAKE (IAF)		JODUM (TF) (FB) (RNP 1.00)		270.13 / 8.38				9000									
JODUM (IF)		ZIRKU (TF) (FB) (RNP 1.00)		270.01 / 2.10				9000									
ZIRKU		CEGIX (RF) (FB) (RNP 1.00)		(2.79 NM RADIUS CW (CFCDQ))/3.99				8100		ADDITIONAL FLIGHT DATA: HOLD SE, RT, 295.97 INBOUND. DISTANCE TO THLD FROM 343 HAT: 0.90 NM. ROUTE TYPE: A,H ROUTE TYPE QUALIFIER 1:F ROUTE TYPE QUALIFIER 2: S #TCH 6157.8 MSL (DO NOT CHART) CHART R-2601							
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 8E EPOCH YEAR: 2020							
2. PROFILE STARTS AT CEGIX																	
3. FAC: 352.08 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																	
4. MIN. ALT: CEGIX 8100																	
5. DIST TO THLD FROM OM: 6.10 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: _____ GS ALT AT: CEGIX 8100 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 54.9 # 34:1 IS CLEAR																	
8. MSA FROM: RW35R 15400																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD					
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
AUTHORIZATION REQUIRED																	
RNP 0.30 DA	6461	6000	343	6461	6000	343	6461	6000	343	6461	6000	343					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -21C (-5F) OR ABOVE 45C (113F). CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. (CONTINUED ON PAGE 2)																	
CITY AND STATE COLORADO SPRINGS, CO		ELEVATION: 6187 TDZE: 6118 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 35R, AMDT 1A 17 AUGUST 2017						SUP: AMDT: 1 DATED 05/26/2016			



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CEGIX (FAF)	RW35R (MAP) (TF) (FO) (RNP 0.30)	352.08 / 6.10	
RW35R (MAP)	HONPI (TF) (RNP 1.00)	352.07 / 8.30	
HONPI	COTLA (TF) (RNP 1.00)	037.00 / 7.30	
COTLA	ADANE (TF) (FO) (RNP 1.00)	114.45 / 9.78	9000

NOTES, (CONT.):

CHART PLANVIEW NOTE ADJACENT TO DRAKE IAF: RF REQUIRED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRAKE ON V83 SOUTHEAST BOUND AND V389 SOUTHBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FSHR ON V244 EASTBOUND.

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

CHART SPEED ICON IN PLANVIEW AT DRAKE: MAX 250 KIAS.

QUALITY
16
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187	TDZE: 6118	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (RNP) Z RWY 35R, AMDT 1A	AMDT: 1
	CITY OF COLORADO SPRINGS MUNI			17 AUGUST 2017	DATED: 05/26/2016

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		LP: DUUUD LNAV: DUUUD									
DRROP (IAF)			NTOOO (TF) (FB) (RNP 1.00)			184.47 / 3.56			8100		CLIMB TO 6200 THEN CLIMBING LEFT TURN TO 8700 DIRECT NSPYR AND HOLD.									
NTOOO			HALFF (TF) (FB) (RNP 1.00)			184.45 / 3.56			7100											
HALFF (IF)			PYYPP (TF) (FB) (RNP 1.00)			154.39 / 4.00			6700											
PYYPP (FAF)			DUUUD (MAP) (TF) (FO) (RNP 0.30)			135.25 / 2.32														
DUUUD (MAP)			6200 MSL (CA)			135.25			6200		ADDITIONAL FLIGHT DATA: HOLD S, LT, 338.25 INBOUND. CHART FAS OBST: 5752 RD (N) 395451N/1050815W CHART FAS OBST: 5855 BLDG 395440N/1050854W 5929 AAO 395648N/1051133W WAAS CHANNEL # 77938 REFERENCE PATH ID: W12A CHART CIRCLING ICON. PYYPP TO DUUUD: 3.00/40.6 FICTITIOUS THRESHOLD POINT (CFVDG) DO NOT CHART. FAC CROSSES RWY C/L EXTENDED 5190 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 19.98 DEGREES. LTP HAE: 1708.7 M									
6200 MSL			NSPYR (DF) (FO) (RNP 1.00)						8700											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 9E EPOCH YEAR: 2015										
2. PROFILE STARTS AT HALFF _____																				
3. FAC: 135.25 FAF: PYYPP DIST FAF TO MAP: 2.32 THLD: 3.14																				
4. MIN. ALT: HALFF 7100, PYYPP 6700																				
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: DUUUD 15200																				
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	6020	1	359	6020	1	359	6020	1	359	6020	1	359								
LNAV MDA	6120	1	459	6120	1	459	6120	1 3/8	459	6120	1 3/8	459								
CIRCLING	6180	1	507	6240	1	567	6360	2	687	6860	3	1187								
NOTES: CHART NOTE: DME/DME RNP-0.3 NA.																				
@ CAT D 1200-3																				
CITY AND STATE DENVER, CO		ELEVATION: 5673 TDZE: 5661 AIRPORT NAME: ROCKY MOUNTAIN METROPOLITAN		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12L, ORIG 17 AUGUST 2017					SUP: AMDT: NONE DATED									



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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBJC
RUNWAY	RW12L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	395444.0850N
LTP/FTP LONGITUDE	1050800.0810W
LTP/FTP ELLIPSOIDAL HEIGHT	+17087
FPAP LATITUDE	395332.4250N
FPAP LONGITUDE	1050653.1715W
THRESHOLD CROSSING HEIGHT (TCH)	00040.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 B4DC156F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+17253
FPAP ORTHOMETRIC HEIGHT	+17253

QUALITY
9
CHECKED

CITY AND STATE DENVER, CO	ELEVATION: 5673 AIRPORT NAME: ROCKY MOUNTAIN METROPOLITAN	TDZE: 5661 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12L, ORIG 17 AUGUST 2017	SUP:
				AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
GPS STANDARD INSTRUMENT APPROACH PROCEDURE																							
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.33																							
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							
NOTES:																							
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017																							
CITY AND STATE				ELEVATION: 458				TDZE: 457				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP			
DANBURY, CT				AIRPORT NAME:								GPS				GPS RWY 8, AMDT 1A, 08/26/2010				AMDT 1			
				DANBURY MUNI																DATE 02/16/2006			



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES													MISSED APPROACH								
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LP: RW08 LNAV: RW08									
BASYE (IAF)			EGERS (TF) (FB) (RNP 1.00)			127.29 / 4.97			3000			CLIMBING LEFT TURN TO 3000 DIRECT LOVES AND HOLD.									
EZHED (IAF)			EGERS (TF) (FB) (RNP 1.00)			013.90 / 5.61			3000												
EGERS (IF)			UHNUF (TF) (FB) (RNP 1.00)			083.61 / 5.00			2100												
UHNUF (FAF)			RW08 (MAP) (TF) (FO) (RNP 0.30)			083.68 / 5.04															
RW08 (MAP)			857 MSL (CA)			083.68						ADDITIONAL FLIGHT DATA: HOLD SE, RT, 310.68 INBOUND. CHART FAS OBST: 987 TREE 412058N/0733116W FAS OBST: 920 AAO 412032N/073332W WAAS CHANNEL # 99736 REFERENCE PATH ID: W08A CHART CIRCLING ICON. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. LTP HAE: 109.3 M									
857 MSL			LOVES (DF) (FO) (RNP 1.00)						3000												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)													MAG VAR: 14W EPOCH YEAR: 1995								
2. PROFILE STARTS AT EGRS																					
3. FAC: 083.68 FAF: UHNUF DIST FAF TO MAP: 5.04 THLD: 5.04																					
4. MIN. ALT: EGRS 3000, UHNUF 2100																					
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																					
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																					
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR																					
8. MSA FROM: RW08 3000																					
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD @											
CATEGORY =====>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
LP MDA	1180	1	723	1180	1	723	1180	1 7/8	723	1180	1 7/8	723									
LNAV MDA	1240	1	783	1240	1 1/4	783	1240	2 1/2	783	1240	2 1/2	783									
CIRCLING	1240	1	783	1260	1 1/4	803	1300	2 1/2	843	1540	3	1083									
NOTES: CHART NOTE: CIRCLING TO RWY 17, 26 NA AT NIGHT. CHART NOTE: CIRCLING NA S OF RWY 8-26. CHART NOTE: RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA.																					
CITY AND STATE DANBURY, CT				ELEVATION: 457 TDZE: 457 AIRPORT NAME: DANBURY MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, ORIG 17 AUGUST 2017						SUP: AMDT: NONE DATED					

**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	KDXR
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	412208.5630N
LTP/FTP LONGITUDE	0732922.2170W
LTP/FTP ELLIPSOIDAL HEIGHT	+01093
FPAP LATITUDE	412239.4030N
FPAP LONGITUDE	0732731.1775W
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	1512
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

2AAFBA50

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01392
FPAP ORTHOMETRIC HEIGHT	+01392

QUALITY
9
CHECKED

CITY AND STATE

DANBURY, CT

ELEVATION: 457

TDZE: 457

AIRPORT NAME:

DANBURY MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 8, ORIG

17 AUGUST 2017

SUP:

AMDT:

NONE

DATED:

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet 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		MACRG							
FUGET (IF/IAF)		VITTY (TF) (FB) (RNP 1.00)		054.53 / 4.00				2000		CLIMBING LEFT TURN TO 3000 DIRECT LOVES AND HOLD.							
VITTY (FAF)		MACRG (MAP) (TF) (FO) (RNP 0.30)		053.26 / 4.69													
MACRG (MAP)		857 MSL (CA)		053.26						ADDITIONAL FLIGHT DATA: HOLD SE, RT, 310.68 INBOUND. CHART FAS OBST: 1072 TREE 412104N/0732915W FAC CROSSES MIDPOINT OF RWY 8-26. CHART CIRCLING ICON.							
857 MSL		LOVES (DF) (FO) (RNP 1.00)						3000									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. HOLD SW FUGET, RT, 054.53 INBOUND, 2500 FT. IN LIEU OF PT (IAF)																	
3. FAC: 053.26 FAF: VITTY DIST FAF TO MAP: 4.69 THLD: _____																	
4. MIN. ALT: FUGET 2500, VITTY 2000																	
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: KDXR 3000																	
MAG VAR: 14W EPOCH YEAR: 1995																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		@					
CATEGORY =====>		A		B		C		D		E							
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
CIRCLING		1340	1 1/4	883	1340	1 1/4	883	1340	2 3/4	883	1540	3	1083				
NOTES: CHART NOTE: CIRCLING NA S OF RWY 8-26. CHART NOTE: RWY 8, 17, 26 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT.																	
@ CAT A, B 900-2, CAT C 900-2 3/4, CAT D 1100-3																	
CITY AND STATE DANBURY, CT		ELEVATION: 457 TDZE: AIRPORT NAME: DANBURY MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-A, ORIG 17 AUGUST 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: 5.14 NM AFTER CHHAZ INT/RADAR					
HENDN INT/RADAR (IF)		SARCO INT/RADAR		272.39 / 4.84 (I-MIA)				3000		CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DHP VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ALTERNATE MA (DO NOT CHART): CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 250 AND VKZ R-278 TO CICIV/VKZ 19.02 DME AND HOLD. DME REQUIRED.					
SARCO INT/RADAR		CHHAZ INT/RADAR		272.39 / 4.12 (I-MIA)				1700							
										ADDITIONAL FLIGHT DATA: HOLD W, LT, 109.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E CICIV/VKZ 19.02 DME, RT, 278.00 INBOUND. CHART FAS OBST: 310 BLDG 254720N/0801356W 549 BLDG 254738N/0801219W. CHART IN PLANVIEW: CICIV/VKZ 19.02 DME. *LOC ONLY					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 5W EPOCH YEAR: 2000					
2. PROFILE STARTS AT HENDN															
3. FAC: 272.39 FAF: CHHAZ INT/RADAR DIST FAF TO MAP: 5.14 THLD: 5.14															
4. MIN. ALT: HENDN 3000, SARCO 3000, CHHAZ 1700, TINKE INT/RADAR 1300*															
5. DIST TO THLD FROM OM: 5.14 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1056															
6. MIN GS INCPT: 1700 GS ALT AT: CHHAZ 1700 OM: - MM: - IM: -															
7. GS ANGLE: 3.00 TCH: 55.0															
8. MSA FROM: DHP VORTAC 090-270 2900, 270-090 2100															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: #		LOC: @							
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 27**	208	2400	200	208	2400	200	208	2400	200	208	2400	200	208	2400	200
S-LOC 27	1300	4000	1292	1300	5500	1292	1300	3	1292	1300	3	1292	1300	3	1292
TINKE FIX MINIMUMS															
S-LOC 27	560	2400	552	560	2400	552	560	6000	552	560	6000	552	560	6000	552
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. # @ CAT A, B 1300-2, CAT C, D, E 1300-3 CHART PLANVIEW NOTE: RADAR REQUIRED CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. (CONTINUED ON PAGE 2)															
CITY AND STATE MIAMI, FL		ELEVATION: 9 TDZE: 8 AIRPORT NAME: MIAMI INTL		FACILITY IDENTIFIER: I-MIA		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 27 17 AUGUST 2017						SUP: AMDT: 26 DATED 07/21/2016			

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

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



CITY AND STATE MIAMI, FL	ELEVATION: 9	TDZE: 8	FACILITY IDENTIFIER: I-MIA	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 27 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 26
	MIAMI INTL				DATED: 07/21/2016

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: 4.78 NM AFTER BIRDD/I-DCX 6.25 DME/RADAR OR AT I-DCX 1.47 DME						
SHANN/I-DCX 16.70 DME/RADAR (IF)		OLDDE/I-DCX 10.64 DME/RADAR		304.47 / 6.06 (I-DCX)				3000		CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2000 ON HEADING 310 AND DHP VORTAC R-335 TO BRBRA/11.48 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 250 AND VKZ VOR/DME R-278 TO CICIV/VKZ 19.02 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 154.68 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E CICIV/VKZ 19.02 DME, RT, 278.00 INBOUND. CHART FAS OBST: 108 ANT ON OL BLDG 254648N/0801614W 819 BLDG 254532N/0801130W. 218 ANT ON OL BLDG 254556N/0801418W. CHART VDP AT 2.66 DME* DISTANCE VDP TO THLD 1.19 NM. *LOC ONLY. CHART IN PLANVIEW: CICIV/VKZ 19.02 DME.						
OLDDE/I-DCX 10.64 DME/RADAR		BIRDD/I-DCX 6.25 DME/RADAR		304.47 / 4.40 (I-DCX)				1600								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 5W EPOCH YEAR: 2000						
2. PROFILE STARTS AT SHANN/I-DCX 16.70 DME/RADAR																
3. FAC: 304.47 FAF: BIRDD/I-DCX 6.25 DME/RADAR DIST FAF TO MAP: 4.78 THLD: 4.78																
4. MIN. ALT: SHANN 3000, OLDDE 3000, BIRDD 1600, PECOT/I-DCX 3.87 DME 820*																
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 974																
6. MIN GS INCPT: 1600 GS ALT AT: BIRDD 1600 OM: - MM: - IM: -																
7. GS ANGLE: 3.00 TCH: 51.1																
8. MSA FROM: DHP VORTAC 090-270 2900, 270-090 2100																
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 30		258	4000	250	258	4000	250	258	4000	250	258	4000	250			
S-LOC 30		460	4000	452	460	4000	452	460	6000	452	460	1 1/2	452			
NOTES: CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY. CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																
CITY AND STATE MIAMI, FL		ELEVATION: 9 TDZE: 8 AIRPORT NAME: MIAMI INTL		FACILITY IDENTIFIER: I-DCX		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 30, AMDT 1B 17 AUGUST 2017						SUP: AMDT: 1A DATED 05/07/2009				



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

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

NOTES, (CONT.):

CHART PROFILE NOTE: DCX LOCALIZER UNUSABLE WITHIN 0.5 NM.

QUALITY
22
CHECKED

CITY AND STATE

MIAMI, FL

ELEVATION: 9

TDZE: 8

AIRPORT NAME:

MIAMI INTL

FACILITY
IDENTIFIER:
I-DCX

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 30, AMDT 1B
17 AUGUST 2017

SUP:

AMDT: 1A

DATED: 05/07/2009

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: 5.74 NM AFTER MAVIS LOM CLIMB TO 800 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 330 AND SAV VORTAC R-001 TO TILLS INT/SAV 20.00 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT MAVIS LOM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 180.82 INBOUND. FAS OBST: 240 AAO 320824N/0811915W CHART R-3005C, R-3005D. CHART CIRCLING ICON. CHART IN PLANVIEW (CFVDS) AT 320749.36N/0812454.19W. CHART PLANVIEW NOTE: ADF REQUIRED.							
SAV VORTAC		MAVIS LOM		267.74 / 6.82				2600									
MAYAR INT		MAVIS LOM		129.56 / 12.39				2600									
KELER/SAV VORTAC 13.64 DME		MAVIS LOM		335.52 / 14.66				2600									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W MAVIS LOM, LT, 096.61 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 096.61 FAF: MAVIS LOM DIST FAF TO MAP: 5.74 THLD: 5.74 4. MIN. ALT: MAVIS LOM 2000 5. DIST TO THLD FROM OM: 5.74 MM: - IM: - 150 HAT: 2152 100 HAT: 1198 GS ANT: 890 6. MIN GS INCPT: 2000 GS ALT AT: - OM: 1926 MM: - IM: - 7. GS ANGLE: 3.00 TCH: 50.3 8. MSA FROM: SA LOM 2600										MAG VAR: 6W EPOCH YEAR: 2005							
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 10	230	1800	200	230	1800	200	230	1800	200	230	1800	200					
S-LOC 10	500	2400	470	500	2400	470	500	5000	470	500	5000	470					
CIRCLING	520	1	470	520	1	470	760	2	710	760	2 1/4	710					
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 10: CAT A, B, C, D, RA 162, RVR 1400, HAT 150, DA 180 MSL. SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 10: CAT A, B, C, D, RA 116, RVR 1200, HAT 100, DA 130 MSL. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 50 TDZE: 30		FACILITY IDENTIFIER: I-SAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:					
SAVANNAH, GA		AIRPORT NAME: SAVANNAH/HILTON HEAD INTL				ILS OR LOC RWY 10, AMDT 28; ILS RWY 10 (SA CAT I), ILS RWY 10 (SA CAT II)						AMDT: 27A					
						17 AUGUST 2017						DATED 07/02/2009					



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.

NOTES, (CONT.):
CHART NOTE: ADF 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 PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 10 CAT C/D VISIBILITY TO 1 3/8 SM.



CITY AND STATE SAVANNAH, GA	ELEVATION: 50 AIRPORT NAME: SAVANNAH/HILTON HEAD INTL	TDZE: 30	FACILITY IDENTIFIER: I-SAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 10, AMDT 28; ILS RWY 10 (SA CAT I) , ILS RWY 10 (SA CAT II) 17 AUGUST 2017	SUP:
					AMDT: 27A
					DATED: 07/02/2009

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

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

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
MUSCATINE, IA	MUSCATINE MUNI	17 AUGUST 2017	3

TAKEOFF MINIMUMS:

RWY 6, 12: STANDARD

RWY 24, 300-2, OR STANDARD WITH MINIMUM CLIMB OF 220 FEET PER NM TO 1000.

RWY 30, 300-1 5/8, OR STANDARD WITH MINIMUM CLIMB OF 310 FEET PER NM TO 1000.

TEXTUAL DEPARTURE PROCEDURES:

RWY 1: CLIMB HEADING 059.50 TO 2300 BEFORE PROCEEDING ON COURSE.

RWY 12: CLIMB HEADING 123.00 TO 2300 BEFORE PROCEEDING ON COURSE.

RWY 24: CLIMB HEADING 239.51 TO 2300 BEFORE PROCEEDING ON COURSE.

RWY 30: CLIMB HEADING 06.08 TO 2300 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 06, TREE 635 FT FROM DER, 549 FT RIGHT OF CENTERLINE, 560 FT MSL. TREE 1422 FT FROM DER, 640 FT RIGHT OF CENTERLINE, 582 FT MSL.

NOTE: RWY 12, NOTE: RWY 12, GRD 28 FT FROM DER, 211 FT RIGHT OF CENTERLINE, 544 FT MSL. BLDG, TREE BEGINNING 733 FT FROM DER, 586 FT RIGHT OF CENTERLINE, UP TO 577 FT MSL. ROD ON OL TOWER, AWOS BEGINNING 1122 FT FROM DER, 744 FT LEFT OF CENTERLINE, UP TO 580 FT MSL. POLE 1122 FT FROM DER, 744 FT LEFT OF CENTERLINE, 34 FT AGL/578 FT MSL.

NOTE: RWY 24, TREE 218 FT FROM DER, 531 FT LEFT OF CENTERLINE, 567 FT MSL. TREE 1922 FT FROM DER, 421 FT RIGHT OF CENTERLINE, 594 FT MSL. TREE 1949 FT FROM DER, 271 FT RIGHT OF CENTERLINE, 599 FT MSL. TREES BEGINNING 2566 FT FROM DER, 326 FT LEFT OF CENTERLINE, UP TO 616 FT MSL. TREE 1.4 NM FROM DER, 1830 FT RIGHT OF CENTERLINE, 768 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2028 FT LEFT OF CENTERLINE, UP TO 780 FT MSL. TREE 1.5 NM FROM DER, 683 FT LEFT OF CENTERLINE, 789 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 2257 FT RIGHT OF CENTERLINE, UP TO 794 FT MSL. TREE 1.5 NM FROM DER, 602 FT LEFT OF CENTERLINE, 795 FT MSL. TREE 1.5 NM FROM DER, 2856 FT RIGHT OF CENTERLINE, 802 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 807 FT MSL. TREE 1.7 NM FROM DER, 1965 FT RIGHT OF CENTERLINE, 810 FT MSL. TREE 1.7 NM FROM DER, 3227 FT RIGHT OF CENTERLINE, 815 FT MSL. TREE 1.7 NM FROM DER, 1971 FT RIGHT OF CENTERLINE, 815 FT MSL. TREE 1.7 NM FROM DER, 355 FT LEFT OF CENTERLINE, 827 FT MSL.

NOTE: RWY 30, NAVAID, REIL BEGINNING 20 FT FROM DER, 79 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/537 FT MSL. FENCE BEGINNING 28 FT FROM DER, 499 FT RIGHT OF CENTERLINE, UP TO 543 FT MSL. TREE, FENCE BEGINNING 54 FT FROM DER, 500 FT LEFT OF CENTERLINE, UP TO 544 FT MSL. TREE 383 FT FROM DER, 333 FT RIGHT OF CENTERLINE, 546 FT MSL. TREES BEGINNING 420 FT FROM DER, 485 FT LEFT OF CENTERLINE, UP TO 577 FT MSL. TREE, BLDG, ELEVATOR BEGINNING 658 FT FROM DER, 308 FT LEFT OF CENTERLINE, UP TO 591 FT MSL. POLE BEGINNING 1752 FT FROM DER, 826 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/593 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 2284 FT LEFT OF CENTERLINE, UP TO 757 FT MSL. TREE 1.2 NM FROM DER, 2386 FT LEFT OF CENTERLINE, 779 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 2062 FT LEFT OF CENTERLINE, UP TO 821 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1392 FT LEFT OF CENTERLINE, UP TO 837 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1044 FT LEFT OF CENTERLINE, UP TO 846 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1363 FT LEFT OF CENTERLINE, UP TO 847 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1136 FT LEFT OF CENTERLINE, UP TO 848 FT MSL. TREE, BLDG, GROUND BEGINNING 1.3 NM FROM DER, 0 FT OF CENTERLINE, UP TO 852 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 857 FT MSL. TREE, GROUND, POLE BEGINNING 1.5 NM FROM DER, 51 FT LEFT OF CENTERLINE, UP TO 860 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 117 FT LEFT OF CENTERLINE, UP TO 861 FT MSL. TREE 2 NM FROM DER, 418 FT LEFT OF CENTERLINE, 852 FT MSL.

CONTROLLING OBSTACLES:

RWY 24: 789 FT MSL TREE 412051.04N/0911054.12W, 827 FT MSL TREE 412045.38N/0911118.41W

RWY 30: 846 FT MSL TREE 412250.43N/0911112.00W.

OBSTACLE MANDATING DEPARTURE ROUTE DEVELOPMENT:

RWY 6, 12, 24, 30, 1190 FT MSL STACK 411905.00N/0910535.00W



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

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

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
MUSCATINE, IA	MUSCATINE MUNI	17 AUGUST 2017	3

REMARKS:

FLIGHT INSPECTED BY:

PAUL R ARMSTRONG

Digitally signed by

ALLAN WILL

Jul 05, 2017

OFFICE SYMBOL:

FICO

DATE:

6/16/17

DEVELOPED BY:

VICTOR B. NASO (KELLIE R. BARNES)

Digitally signed by

ALLAN WILL

Jul 05, 2017

OFFICE SYMBOL:

AJV-5413

DATE:

04/10/2017

APPROVED BY:

GEORGE E. DAVIS

Digitally signed by

ALLAN WILL

Jul 05, 2017

OFFICE SYMBOL:

AJV-5410

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:

ZAU, KMLI APCH CONT, AMGR

CHANGES - REASONS:

1. UPDATED TAKEOFF MINIMUMS RWYS 24 AND 30
 2. UPDATED TEXTUAL DEPARTURE PROCEDURES ALL RWYS.
 3. DOCUMENTED TAKEOFF OBSTACLES USING AJV APPROVED OBSTACLE GROUPE
 4. UPDATED CONTROLLING OBSTACLES RWY 24 AND 30
 5. RWY 12 COURSE CHANGED FROM 124.07 TO 123.00
-
1. CANCELS FDC NOTAM 7/9593.
 2. USED NEW PHRASEOLOGY REQUIRED BY 8260.46A AND DDD DECOMMISSIONING
 3. REQUIRED BY 8260.46F
 4. NEW CONTROLLING OBSTACLES IDENTIFIED
 5. AVOID 1190 STACK

QUALITY
4
CHECKED

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: 4.40 NM AFTER BYI VOR/DME OR AT ZOKID/BYI 4.40 DME FIX					
SHONE INT/BYI 15.00 DME CCW (IAF)		ZIVEN/BYI 15.00 DME (NOPT)			15.00 DME ARC			6000		CLIMB TO 5000 THEN CLIMBING LEFT TURN TO 6000 DIRECT BYI VOR/DME AND HOLD.					
TWF VORTAC (IAF)		HAZZL INT/BYI 9.94 DME (NOPT)			044.00 / 20.83			6000							
ZIVEN/BYI 15.00 DME		HAZZL INT/BYI 9.94 DME			094.00 / 5.05 (BYI R-100)			6000							
HAZZL INT/BYI 9.94 DME (IF)		BYI VOR/DME			094.00 / 9.94			6000							
ADDITIONAL FLIGHT DATA: HOLD W, LT, 094.00 INBOUND. CHART FAS OBST: 4333 ELEVATOR 423214N/1134819W 4460 AAO 423406N/1135224W CHART BYI R-305 AT SHONE. FAC CROSSES MIDPOINT OF RWY 6-24. CHART CIRCLING ICON.															
1. PT <u>R</u> SIDE OF COURSE <u>274.00</u> OUTBOUND <u>6300</u> FT WITHIN <u>10</u> MILES OF <u>BYI VOR/DME</u> (IAF)															
2. _____															
3. FAC <u>100.32</u> FAF <u>BYI VOR/DME</u> DIST FAF TO MAP <u>4.40</u> THLD _____															
4. MIN. ALT <u>BYI VOR/DME 6000</u>															
8. MSA FROM: <u>BYI VOR/DME 360-090 7400, 090-240 11500, 240-360 6300</u>															
MAG VAR: 18E 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	4640	1	486	4660	1	506	4740	1 1/2	586	4780	2	626			
NOTES:															
CHART NOTE: CIRCLING RWY 2, 20, 24 NA AT NIGHT.															
CHART NOTE: RWY 2, 20, 24 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.															
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TWF VORTAC AIRWAY RADIALS 349 CW 097.															
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TWIN FALLS ALTIMETER SETTING AND INCREASE															
ALL MDAS 80 FT AND VISIBILITY CATS C AND D 1/4 SM.															
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.															
QUALITY 16 CHECKED															
CITY AND STATE BURLEY, ID		ELEVATION: 4154 AIRPORT NAME: BURLEY MUNI		TDZE:		FACILITY IDENTIFIER: BYI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 5 17 AUGUST 2017				SUP AMDT 4D DATE 09/18/2014			

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: 4.57 NM AFTER JONNY LOM/MWA 5.45 DME CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2000 DIRECT JONNY LOM/MWA 5.45 DME AND HOLD. ALTERNATE MA (DO NOT CHART): ; OR WHEN DIRECTED BY ATC, CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 ON MWA VOR/DME R-216 TO MAKAN INT AND HOLD. ADDITIONAL FLIGHT DATA: CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW MAKAN INT, RT, 036.48 INBOUND. CHART FAS OBST: 589 TREE 374643N/0890021W CHART IN PLANVIEW: MAKAN INT. CHART PLANVIEW NOTE: ADF OR DME REQUIRED.											
MWA VOR/DME				JONNY LOM/MWA 5.45 DME				016.97 / 5.45				2000													
ENL VORTAC				JONNY LOM/MWA 5.45 DME				161.58 / 35.94				2100													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N JONNY LOM, LT, 201.66 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 201.66 FAF: JONNY LOM/MWA 5.45 DME DIST FAF TO MAP: 4.57 THLD: 4.57 4. MIN. ALT: JONNY LOM 2000 5. DIST TO THLD FROM OM: 4.57 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 910 6. MIN GS INCPT: 2000 GS ALT AT: - OM: 1990 MM: - IM: - 7. GS ANGLE: 3.00 TCH: 49.9 8. MSA FROM: MW LOM 2700																MAG VAR: 1E				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 20	668	1/2	200	668	1/2	200	668	1/2	200	668	1/2	200													
S-LOC 20	840	1/2	372	840	1/2	372	840	1/2	372	840	3/4	372													
CIRCLING	920	1	448	940	1	468	940	1 1/2	468	1040	2	568													
NOTES: CHART NOTE: ADF REQUIRED. CHART NOTE: IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARBONDALE-MURPHYSBORO ALTIMETER SETTING AND INCREASE ALL DA/MDAS 40 FEET. CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.																									
CITY AND STATE MARION, IL				ELEVATION: 472 TDZE: 468 AIRPORT NAME: VETERANS AIRPORT OF SOUTHERN ILLINOIS				FACILITY IDENTIFIER: I-MWA		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 20, AMDT 12B 17 AUGUST 2017				SUP:											
														AMDT: 12A											
														DATED 05/01/2014											



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: RW20					
MWA VOR/DME		JONNY LOM			016.97 / 5.45			2100		CLIMB TO 2100 THEN LEFT TURN DIRECT MW LOM AND HOLD. ALTERNATE MA (DO NOT CHART): ; OR WHEN DIRECTED BY ATC, CLIMBING RIGHT TURN TO 3000 ON MWA VOR/DME R-216 TO MAKAN INT AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, LT, 201.47 INBOUND. CHART FAS OBST: 609 TREE 374637N/0890108W JONNY LOM TO RW20: 3.28/45 CHART: ALTERNATE MA HOLDING, HOLD SW MAKAN, RT, 036.48 CHART IN PLANVIEW: MAKAN INT					
ENL VORTAC		EWING			149.00 / 23.49			2100							
EWING (IAF)		JABUR INT (NOPT)			149.00 / 4.94 (ENL)			2100							
JABUR INT (IF)		JONNY LOM			201.80 / 10.26			2100							
1. PT <u>R</u> SIDE OF COURSE <u>021.47</u> OUTBOUND <u>2100</u> FT WITHIN <u>10</u> MILES OF <u>JONNY LOM</u> (IAF)										MAG VAR: 1E EPOCH YEAR:1985					
2. _____															
3. FAC <u>201.47</u> FAF <u>JONNY LOM</u> DIST FAF TO MAP <u>4.57</u> THLD <u>4.57</u>															
4. MIN. ALT <u>JONNY LOM 2100</u>															
8. MSA FROM: <u>MW LOM 2700</u>															
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-20	920	3/4	452	920	3/4	452	920	3/4	452	920	1 1/4	452			
CIRCLING	920	1	448	940	1	468	940	1 1/2	468	1040	2	568			
NOTES:															
CHART NOTE: IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARBONDALE-MURPHYSBORO ALTIMETER SETTING AND @ NA WHEN LOCAL WEATHER NOT AVAILABLE. INCREASE ALL MDAS 40 FEET. CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.															
CITY AND STATE MARION, IL		ELEVATION: 472 AIRPORT NAME: VETERANS AIRPORT OF SOUTHERN ILLINOIS		TDZE: 468		FACILITY IDENTIFIER: MW		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 20, AMDT 10D 17 AUGUST 2017				SUP AMDT 10C DATE 05/01/2014			



RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW02 CLIMB TO 2400 DIRECT YOSUP AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 201.72 INBOUND. CHART FAS OBST: 595 TOWER 374352N/0890044W FAS OBST: 679 AAO 374139N/0890334W 749 AAO 373840N/0890245W DISTANCE TO THLD FROM 200 HAT: 0.49 NM. CHART VDP AT 1.22 NM TO RW02* *LNAV ONLY. WAAS CHANNEL # 61230 REFERENCE PATH ID: W02A LTP HAE: 108.9 M												
MWA VOR/DME				ANUKE (TF) (FO) (RNP 2.00)				202.27 / 13.41				2400														
BUNCO (IAF)				ANUKE (NOPT) (TF) (FB) (RNP 1.00)				292.07 / 9.00				2400														
DONGO (IAF)				ANUKE (NOPT) (TF) (FB) (RNP 1.00)				067.92 / 8.29				2400														
ANUKE (IF/IAF)				DIPSE (TF) (FB) (RNP 1.00)				021.59 / 7.00				2400														
DIPSE (FAF)				RW02 (MAP) (TF) (FO) (RNP 0.30)				021.62 / 5.97																		
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S ANUKE, RT, 021.59 INBOUND, 2400 FT. IN LIEU OF PT (IAF) 3. FAC: 021.62 FAF: DIPSE DIST FAF TO MAP: 5.97 THLD: 5.97 4. MIN. ALT: ANUKE 2400, DIPSE 2400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2400 GS ALT AT: DIPSE 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR 8. MSA FROM: RW02 2700																	MAG VAR: 1E					EPOCH YEAR: 1985				
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD @																
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
LPV DA	666	3/4	200	666	3/4	200	666	3/4	200	666	3/4	200														
LNAV/VNAV DA	753	1	287	753	1	287	753	1	287	753	1	287														
LNAV MDA	940	1	474	940	1	474	940	1 3/8	474	940	1 3/8	474														
CIRCLING	940	1	468	940	1	468	940	1 1/2	468	1040	2	568														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MWA VOR/DME AIRWAY RADIALS 262 CW 286. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARBONDALE/MURPHYSBORO ALTIMETER SETTING (CONTINUED ON PAGE 2)																										
CITY AND STATE				ELEVATION: 472 TDZE: 466				FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:											
MARION, IL				AIRPORT NAME:				RNAV			RNAV (GPS) RWY 2, AMDT 1C				AMDT: 1B											
				VETERANS AIRPORT OF SOUTHERN ILLINOIS							17 AUGUST 2017				DATED 05/28/2015											



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

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet 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
RW02 (MAP)	666 MSL (CA)	021.62	
666 MSL	YOSUP (DF) (FO)		2400

NOTES, (CONT.):

AND INCREASE ALL DA/MDA 40 FEET, AND INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C AND D VISIBILITY 1/8 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CARBONDALE/MURPHYSBORO ALTIMETER SETTING.

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

CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.



CITY AND STATE
MARION, IL

ELEVATION: 472 TDZE: 466
AIRPORT NAME:
VETERANS AIRPORT OF SOUTHERN ILLINOIS

FACILITY
IDENTIFIER:
RNAV

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

SUP:
AMDT: 1B
DATED: 05/28/2015

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMWA
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	374454.1965N
LTP/FTP LONGITUDE	0890104.8965W
LTP/FTP ELLIPSOIDAL HEIGHT	+01089
FPAP LATITUDE	374616.6000N
FPAP LONGITUDE	0890021.5700W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	89D847CC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01380
FPAP ORTHOMETRIC HEIGHT	+01380

QUALITY
9
CHECKED

CITY AND STATE MARION, IL	ELEVATION: 472 AIRPORT NAME: VETERANS AIRPORT OF SOUTHERN ILLINOIS	TDZE: 466 	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 1C 17 AUGUST 2017	SUP:
					AMDT: 1B
					DATED: 05/28/2015

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW20 CLIMB TO 2400 DIRECT ANUKE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 021.59 INBOUND. FAS OBST: 619 AAO 374915N/0885851W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.15 NM TO RW20* *LNAV ONLY. WAAS CHANNEL # 57904 REFERENCE PATH ID: W20A LTP HAE: 112.7 M									
MWA VOR/DME		YOSUP (TF) (FO) (RNP 2.00)		021.00 / 12.54		2400											
AYAZE (IAF)		YOSUP (NOPT) (TF) (FB) (RNP 1.00)		150.61 / 20.93		2400											
DAHLL (IAF)		YOSUP (NOPT) (TF) (FB) (RNP 1.00)		228.12 / 23.44		2400											
TEXAS (IAF)		YOSUP (NOPT) (TF) (FB) (RNP 1.00)		291.48 / 19.71		2400											
YOSUP (IF/IAF) (SEE FORM 8260-10)		VANNU (TF) (FB) (RNP 1.00)		201.72 / 7.00		2000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N YOSUP, RT, 201.72 INBOUND, 2400 FT. IN LIEU OF PT (IAF) 3. FAC: 201.68 FAF: VANNU DIST FAF TO MAP: 4.66 THLD: 4.66 4. MIN. ALT: YOSUP 2400, VANNU 2000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: VANNU 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 49.6 34:1 IS CLEAR 8. MSA FROM: RW20 2700										MAG VAR: 1E		EPOCH YEAR: 1985					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @					
CATEGORY ==>		A		B		C		D		E							
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA		668	1/2	200	668	1/2	200	668	1/2	200	668	1/2	200				
LNAV/VNAV DA		773	1/2	305	773	1/2	305	773	1/2	305	773	1/2	305				
LNAV MDA		880	1/2	412	880	1/2	412	880	3/4	412	880	3/4	412				
CIRCLING		920	1	448	940	1	468	940	1 1/2	468	1040	2	568				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MWA VOR/DME ON V429 SOUTHBOUND AND FOR ARRIVALS AT DAHLL ON V4 EASTBOUND. (CONTINUED ON PAGE 2)																	
CITY AND STATE MARION, IL		ELEVATION: 472 TDZE: 468 AIRPORT NAME: VETERANS AIRPORT OF SOUTHERN ILLINOIS		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 1C 17 AUGUST 2017						SUP: AMDT: 1B DATED 05/28/2015					



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
VANNU (FAF)	RW20 (MAP) (TF) (FO) (RNP 0.30)	201.68 / 4.66	
RW20 (MAP)	668 MSL (CA)	201.68	
668 MSL	ANUKE (DF) (FO) (RNP 1.00)		2400

NOTES, (CONT.):

CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARBONDALE/MURPHYSBORO ALTIMETER SETTING AND INCREASE ALL DA/MDA 40 FEET, AND INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C AND D VISIBILITY 1/8 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CARBONDALE/MURPHYSBORO ALTIMETER SETTING.

QUALITY
9
CHECKED

CITY AND STATE MARION, IL	ELEVATION: 472	TDZE: 468	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 1C 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 1B
	VETERANS AIRPORT OF SOUTHERN ILLINOIS				DATED: 05/28/2015

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMWA
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	374607.2880N
LTP/FTP LONGITUDE	0890026.4670W
LTP/FTP ELLIPSOIDAL HEIGHT	+01127
FPAP LATITUDE	374444.9700N
FPAP LONGITUDE	0890109.7500W
THRESHOLD CROSSING HEIGHT (TCH)	00049.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

CD096365

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01419
FPAP ORTHOMETRIC HEIGHT	+01419

QUALITY
9
CHECKED

CITY AND STATE

MARION, IL

ELEVATION: 472

TDZE: 468

AIRPORT NAME:

VETERANS AIRPORT OF SOUTHERN ILLINOIS

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 20, AMDT 1C

17 AUGUST 2017

SUP:

AMDT:

1B

DATED:

05/28/2015

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

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

City, State	Airport	Effective Date	Amdt. No.
MARION, IL	VETERANS AIRPORT OF SOUTHERN ILLINOIS	17 AUGUST 2017	1

TAKEOFF MINIMUMS:

RWY 2, 20, 29, STANDARD.
RWY 11, 600-3 OR STANDARD WITH MINIMUM CLIMB OF 235 FEET PER NM TO 1200.

TEXTUAL DEPARTURE PROCEDURES:

RWY 11 - CLIMB VIA HEADING 107 TO 1100 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 2, TREES BEGINNING 119 FEET FROM DER, 265 FEET LEFT OF CENTERLINE, UP TO 106 FEET AGL/543 FEET MSL.
NOTE: RWY 11, POLES BEGINNING 630 FEET FROM DEPARTURE END OF RUNWAY, 496 FEET RIGHT OF CENTERLINE, UP TO 75 FEET AGL/518 FEET MSL. TREE 1298 FEET FROM DER, 594 FEET RIGHT OF CENTERLINE, 81 FEET AGL/528 FEET MSL. TANK 5154 FEET FROM DER, 800 FEET RIGHT OF CENTERLINE, 164 FEET AGL/601 FEET MSL. TOWER 3 16 NM FROM DER, 1.32 NM LEFT OF CENTERLINE, 490 FEET AGL/980 FEET MSL.
NOTE: RWY 20, TREES BEGINNING 1538 FEET FROM DER, 823 FEET RIGHT OF CENTERLINE, UP TO 68 FEET AGL/521 FEET MSL.
NOTE: RWY 29, WIND SOCK 341 FEET FROM DER, 291 FEET LEFT OF CENTERLINE, 11 FEET AGL/461 FEET MSL. TREES BEGINNING 559 FEET FROM DER, 360 FEET RIGHT OF CENTERLINE, UP TO 77 FEET AGL/534 FEET MSL. THEATER SCREEN 1347 FEET FROM DER, 634 FEET RIGHT OF CENTERLINE, 77 FEET AGL/530 FEET MSL.

CONTROLLING OBSTACLES:

RWY 2: 503 MSL TREE 374609.39N/0890028.95W, 517 MSL TREE 374609.93N/0890017.23W, 543 MSL TREE 374630.70N/0890002.79W.
RWY 11: 503 POLE 374443.14N/0885955.45W, 518 MSL POLE 374443.06N/0885938.79W, 528 MSL TREE 374440.22N/0885947.90W, 601 MSL TANK 374426.74N/0885902.91W, 980 MSL TOWER 374513.00N/0885604.00W.
RWY 20: 505 MSL TREE 374443.30N/0890121.74W, 521 MSL TREE 374435.66N/0890103.63W, 508 MSL TREE 374434.73N/0890104.90W.
RWY 29: 461 MSL WIND SOCK 374502.45N/0890103.61W, 471 MSL BUSH 374505.27N/0890106.08W, 475 MSL TREE 374509.34N/0890104.11W, 473 MSL TREE 374505.42N/0890107.82W, 507 MSL TREE 374509.80N/0890106.77W, 504 MSL TREE 374509.99N/0890108.43W, 534 MSL TREE 374511.68N/0890110.52W, 498 MSL TREE 374503.57N/0890112.64W, 622 MSL TREE 374504.34N/0890116.35W, 514 MSL TREE 374509.94N/0890114.80W, 525 MSL TREE 374509.73N/0890118.61W, 530 MSL THEATER SCREEN 374514.67N/0890113.99W.

REMARKS:

FLIGHT INSPECTED BY:

TONY BAMSEY FICO

03/21/2017

Digitally signed by

ALLAN WILL

Mar 30, 2017

DEVELOPED BY:

PHILLIP BRANDENBURG AJV-5412

2/13/17

Digitally signed by

ALLAN WILL

Mar 30, 2017

APPROVED BY:

GEORGE DAVIS AJV-5410

Digitally signed by

PHILLIP BRANDENBURG

Feb 13, 2017

COORDINATED WITH:

AOPA, NBAA, ZKC, MWA ATCT, AMGR

CHANGES:

1. AIRPORT NAME CHANGED FROM WILLIAMSON COUNTY REGIONAL TO VETERANS AIRPORT OF SOUTHERN ILLINOIS.

REASONS:

1. PER REQUEST.



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: MWA VOR/DME						
										CLIMB TO 2400 THEN RIGHT TURN DIRECT MWA VOR/DME AND HOLD.						
										ADDITIONAL FLIGHT DATA: HOLD NE, LT, 207.37 INBOUND. CHART FAS OBST: 629 TREE 374000N/0890533W GRINN TO RW02: 2.97/45 FAC CROSSES RWY C/L EXTENDED 3007 FROM THLD.						
1. PT <u>L</u> SIDE OF COURSE <u>207.37</u> OUTBOUND <u>2400</u> FT WITHIN <u>10</u> MILES OF <u>GRINN INT</u> (IAF)																
2.																
3. FAC <u>027.37</u> FAF <u>GRINN INT/MWA 6.50 DME</u> DIST FAF TO MAP <u>6.04</u> THLD <u>6.04</u>																
4. MIN. ALT <u>GRINN INT/MWA 6.50 DME 2400</u>																
8. MSA FROM: <u>MWA VOR/DME 2700</u>										MAG VAR: <u>4E</u>			EPOCH YEAR: <u>1965</u>			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: <u>N A</u>		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-02		900	1	434	900	1	434	900	1 1/4	434	900	1 1/2	434			
CIRCLING		920	1	448	940	1	468	940	1 1/2	468	1040	2	568			
NOTES:																
CHART NOTE: ADF OR DME REQUIRED.																
CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.																
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																
(CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 472		TDZE: 466		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP				
MARION, IL		AIRPORT NAME:				MWA		VOR RWY 2, AMDT 13E 17 AUGUST 2017				AMDT 13D				
		VETERANS AIRPORT OF SOUTHERN ILLINOIS										DATE 04/30/2015				



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

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

NOTES, (CONT.):

CHART NOTE: IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARBONDALE-MURPHYSBORO ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET.

QUALITY
29
CHECKED

CITY AND STATE

MARION, IL

ELEVATION: 472**TDZE: 466**

AIRPORT NAME:

VETERANS AIRPORT OF SOUTHERN ILLINOIS

FACILITY
IDENTIFIER:

MWA

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 2, AMDT 13E

17 AUGUST 2017

SUP:

AMDT: **13D**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: MWA VOR/DME								
											CLIMB TO 2400 THEN LEFT TURN DIRECT MWA VOR/DME AND HOLD.								
											ADDITIONAL FLIGHT DATA: HOLD N, LT, 190.00 INBOUND. CHART FAS OBST: 609 TREE 374637N/0890109W CHART 942 TOWER 375043N/0885546W. CHART VDP AT 1.92 DME DISTANCE VDP TO THLD 1.03 NM. TOREE TO RW20: 3.19/45 FAC CROSSES RWY C/L EXTENDED 381 FT FROM THLD.								
1. PT <u>R</u> SIDE OF COURSE <u>010.00</u> OUTBOUND <u>2100</u> FT WITHIN <u>10</u> MILES OF <u>MWA VOR/DME</u> (IAF)																			
2.																			
3. FAC <u>190.00</u> FAF										DIST FAF TO MAP THLD									
4. MIN. ALT <u>TOREE/MWA 3.10 DME 1260*</u>																			
8. MSA FROM: <u>MWA VOR/DME 2700</u>										MAG VAR: 4E EPOCH YEAR: 1965									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		#		STANDARD @					
CATEGORY =====>		A			B			C			D			E					
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA			
S-20		1260	1/2	792	1260	3/4	792	1260	1 3/4	792	1260	2	792						
CIRCLING		1260	1	788	1260	1 1/4	788	1260	2 1/4	788	1260	2 1/2	788						
TOREE FIX MINIMUMS																			
S-20		860	1/2	392	860	1/2	392	860	1/2	392	860	1	392						
CIRCLING		920	1	448	940	1	468	940	1 1/2	468	1040	2	568						
NOTES: CHART NOTE: VDP NA WHEN USING CARBONDALE-MURHPHYSBORO ALTIMETER SETTING. CHART NOTE: TOREE FIX MINIMUMS: FOR INOPERATIVE MALSR INCREASE S-20 CAT D VISIBILITY TO 1 1/4. CHART NOTE: CIRCLING RWY 11 NA AT NIGHT. CHART NOTE: IF LOCAL ALTIMETER SETTING NOTE RECEIVED, USE CARBONDALE-MURPHYSBORO ALTIMETER SETTING (CONTINUED ON PAGE 2)										# NA WHEN LOCAL WEATHER NOT AVAILABLE. @ CAT C 800-2 1/4, CAT D 800-2 1/2									
CITY AND STATE MARION, IL		ELEVATION: 472 TDZE: 468 AIRPORT NAME: VETERANS AIRPORT OF SOUTHERN ILLINOIS			FACILITY IDENTIFIER: MWA		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 20, AMDT 17D 17 AUGUST 2017					SUP AMDT 17C DATE 05/01/2014							



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

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NOTES, (CONT.):**AND INCREASE ALL MDAS 40 FEET.****CHART PROFILE VIEW NOTE: *1300 WHEN USING CARBONDALE-MURPHYSBORO ALTIMETER SETTING.**

QUALITY
29
CHECKED

CITY AND STATE

MARION, IL

ELEVATION: 472**TDZE: 468**

AIRPORT NAME:

VETERANS AIRPORT OF SOUTHERN ILLINOIS

FACILITY
IDENTIFIER:

MWA

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 20, AMDT 17D

17 AUGUST 2017

SUP:

AMDT: **17C**DATED: **05/01/2014**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE		MAP: UQXAR/OKK 22.02 DME FIX							
OKK VORTAC			SOUSE/17.00 DME			204.00 / 17.00				2500		CLIMBING RIGHT TURN TO 2500 ON OKK VORTAC R-204 TO SOUSE/17.00 DME AND HOLD.							
										ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1050 TREE 401042N/0861150W CHART INDIANAPOLIS INTL ASOS FAC CROSSES MIDPOINT OF RWY 5-23. CHART PLANVIEW NOTE: DME REQUIRED.									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																			
2. HOLD NE SOUSE, RT, 204.00 INBOUND, 2500 FT. IN LIEU OF PT (IAF)																			
3. FAC 204.00 FAF SOUSE/17.00 DME										DIST FAF TO MAP _____ THLD _____									
4. MIN. ALT SOUSE 2500																			
8. MSA FROM: OKK VORTAC 2900										MAG VAR: 5W 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				
CIRCLING	1460	1	524	1480	1	544	1480	1 1/2	544		NA								
NOTES: CHART NOTE: PROCEDURE NA AT NIGHT EXCEPT BY PRIOR ARRANGEMENT FOR RUNWAY LIGHTS. CHART NOTE: DME REQUIRED. CHART NOTE: USE INDIANAPOLIS INTL ALTIMETER SETTING.																			
CITY AND STATE SHERIDAN, IN				ELEVATION: 936 AIRPORT NAME: SHERIDAN			TDZE:			FACILITY IDENTIFIER: OKK			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 6A 17 AUGUST 2017				SUP VOR/DME-A AMDT 6 DATE 10/30/2003		



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: RW17 LNAV: RW17											
PIGYI (IAF)		FINEB (NOPT) (TF) (FB) (RNP 1.00)		233.13 / 5.00		3400		CLIMB TO 3400 DIRECT ADELA AND HOLD.											
HOSKU (IAF)		FINEB (NOPT) (TF) (FB) (RNP 1.00)		113.01 / 5.00		3400													
FINEB (IF/IAF)		OKADY (TF) (FB) (RNP 1.00)		173.07 / 5.65		2900													
OKADY (FAF)		WOBLO/3.10 NM TO RW17 (TF) (FB) (RNP 0.30)		173.07 / 2.25															
WOBLO/3.10 NM TO RW17		RW17 (MAP) (TF) (FO) (RNP 0.30)		173.07 / 3.10				ADDITIONAL FLIGHT DATA: HOLD S, RT, 353.07 INBOUND. CHART FAS OBST: 1323 TK LTD 385530N/0971407W CHART FAS OBST: 1359 TOWER 385545N/0971447W 1420 AAO 385751N/0971332W WAAS CHANNEL # 63234 REFERENCE PATH ID: W17A CHART CIRCLING ICON. WOBLO TO RW17: 3.00/45. LTP HAE: 322.5 M											
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 7E EPOCH YEAR: 1985									
2. HOLD N FINEB, RT, 173.07 INBOUND, 3400 FT. IN LIEU OF PT (IAF)																			
3. FAC: 173.07 FAF: OKADY DIST FAF TO MAP: 5.35 THLD: 5.35																			
4. MIN. ALT: FINEB 3400, OKADY 2900, WOBLO/3.10 NM TO RW17 2180																			
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		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		1640	1	487	1640	1	487	1640	1 3/8	487		NA							
LNAV MDA		1680	1	527	1680	1	527	1680	1 1/2	527		NA							
CIRCLING		1740	1	587	1740	1	587	1980	2 1/2	827		NA							
NOTES: CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. @ CAT C 900-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: STRAIGHT-IN RWY 17 NA AT NIGHT, CIRCLING RWY 17 NA AT NIGHT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALINA ALTIMETER SETTING.																			
CITY AND STATE		ELEVATION: 1153 TDZE: 1153		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
ABILENE, KS		AIRPORT NAME:		ABILENE MUNI		RNAV (GPS) RWY 17, AMDT 1B				AMDT: 1A									
						17 AUGUST 2017				DATED		07/24/2014							

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
RW17 (MAP)	1553 MSL (CA)	173.07	

1553 MSL	ADELA (DF) (FO) (RNP 1.00)		3400

TAA

	FROM	TO	ALT
1.	113/30 CW 233/30 (NOPT)	FINEB (IF/IAF) (FB)	3400
2.	233/30 CW 353/30	PIGYI (IAF) (FB)	3400
3.	353/30 CW 113/30	HOSKU (IAF) (FB)	3400

QUALITY
29
CHECKED

CITY AND STATE ABILENE, KS	ELEVATION: 1153	TDZE: 1153	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1B 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 1A
	ABILENE MUNI				DATED: 07/24/2014

**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	K78
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	385434.8555N
LTP/FTP LONGITUDE	0971409.0420W
LTP/FTP ELLIPSOIDAL HEIGHT	+03225
FPAP LATITUDE	385305.6700N
FPAP LONGITUDE	0971409.1800W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1504
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

C2D9065D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03512
FPAP ORTHOMETRIC HEIGHT	+03512

QUALITY
29
CHECKED

CITY AND STATE

ABILENE, KS

ELEVATION: 1153

TDZE: 1153

AIRPORT NAME:

ABILENE MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 17, AMDT 1B

17 AUGUST 2017

SUP:

AMDT:

1A

DATED:

07/24/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW35									
ECHEL (IAF)		ADELA (NOPT) (TF) (FB) (RNP 1.00)		053.01 / 5.00		3400		CLIMB TO 3400 DIRECT FINEB AND HOLD.									
EZXIX (IAF)		ADELA (NOPT) (TF) (FB) (RNP 1.00)		293.13 / 5.00		3400											
ADELA (IF/IAF)		IKEHU (TF) (FB) (RNP 1.00)		353.07 / 5.65		2900											
IKEHU (FAF)		ZEDUD/2.00 NM TO RW35 (TF) (FB) (RNP 0.30)		353.07 / 3.35													
ZEDUD/2.00 NM TO RW35 (SEE FORM 8260-10)		RW35 (MAP) (TF) (FO) (RNP 0.30)		353.07 / 2.00				ADDITIONAL FLIGHT DATA: HOLD N, RT, 173.07 INBOUND. CHART FAS OBST: 1294 TREE 385155N/0971325W DISTANCE TO THLD FROM 317 HAT: 0.86 NM. CHART VDP AT 1.35 NM TO RW35* *LNAV ONLY. WAAS CHANNEL # 97734 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 321.7 M									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 7E EPOCH YEAR: 1985							
2. HOLD S ADELA, RT, 353.07 INBOUND, 3400 FT. IN LIEU OF PT (IAF)																	
3. FAC: 353.07 FAF: IKEHU DIST FAF TO MAP: 5.35 THLD: 5.35																	
4. MIN. ALT: ADELA 3400, IKEHU 2900, ZEDUD/2.00 NM TO RW35 1820*																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: 2900 GS ALT AT: IKEHU 2900 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR																	
8. MSA FROM: _____																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A		STANDARD @									
CATEGORY ==>		A		B		C		D		E							
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA		1468	1	317	1468	1	317	1468	1	317		NA					
LNAV/VNAV DA		1468	1	317	1468	1	317	1468	1	317		NA					
LNAV MDA		1620	1	469	1620	1	469	1620	1 3/8	469		NA					
CIRCLING																	
		1740	1	587	1740	1	587	1980	2 1/2	827		NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 17C (2F) OR ABOVE 54C (130F). @ CAT C 900-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). *LNAV ONLY (CONTINUED ON PAGE 2)																	
CITY AND STATE ABILENE, KS		ELEVATION: 1153 TDZE: 1151 AIRPORT NAME: ABILENE MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1B 17 AUGUST 2017						SUP: AMDT: 1A DATED 07/24/2014					



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
RW35 (MAP)	1468 MSL (CA)	353.07	
1468 MSL	FINEB (DF) (FO) (RNP 1.00)		3400

NOTES, (CONT.):

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALINA ALTIMETER SETTING.

CHART NOTE: CIRCLING RWY 17 NA AT NIGHT.

TAA

	FROM	TO	ALT
1.	293/30 CW 053/30 (NOPT)	ADELA (IF/IAF) (FB)	3400
2.	053/30 CW 173/30	ECHEL (IAF) (FB)	3400
3.	173/30 CW 293/30	EZTIX (IAF) (FB)	3400

QUALITY
29
CHECKED

CITY AND STATE
ABILENE, KS

ELEVATION: 1153 TDZE: 1151
AIRPORT NAME:
ABILENE MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 35, AMDT 1B
17 AUGUST 2017

SUP:
AMDT: 1A
DATED: 07/24/2014

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	K78
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	385354.3315N
LTP/FTP LONGITUDE	0971409.1020W
LTP/FTP ELLIPSOIDAL HEIGHT	+03217
FPAP LATITUDE	385523.5100N
FPAP LONGITUDE	0971408.9600W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1504
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 2E4B9CD2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03505
FPAP ORTHOMETRIC HEIGHT	+03505

QUALITY
29
CHECKED

CITY AND STATE ABILENE, KS	ELEVATION: 1153 AIRPORT NAME: ABILENE MUNI	TDZE: 1151 ABILENE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 1B 17 AUGUST 2017	SUP:
					AMDT: 1A
					DATED: 07/24/2014

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: KELEC/18.08 DME FIX						
SLN VORTAC		CHALK/13.12 DME (NOPT)			086.67 / 13.12			3000		CLIMB TO 2600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 320 AND SLN VORTAC R-087 TO CHALK/13.12 DME AND HOLD.						
										ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1424 TOWER 385556N/0971700W FAC CROSSES MIDPOINT OF RWY 17-35. CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME REQUIRED.						
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD W CHALK, RT, 086.67 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																
3. FAC 086.67 FAF CHALK/13.12 DME _____ DIST FAF TO MAP _____ THLD _____																
4. MIN. ALT CHALK 3000																
8. MSA FROM: SLN VORTAC 3400										MAG VAR: 7E					EPOCH YEAR:1990	
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E		
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING		1760	1	607	1760	1	607	1980	2 1/2	827		NA				
NOTES:																
CHART NOTE: DME REQUIRED.										@ CAT C 900-2 1/2						
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALINA ALTIMETER SETTING.																
CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																
CHART NOTE: CIRCLING RWY 17 NA AT NIGHT.																
CITY AND STATE		ELEVATION: 1153			TDZE:		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP		VOR/DME-A	
ABILENE, KS		AIRPORT NAME:					SLN		VOR-A, AMDT 3A				AMDT		3	
		ABILENE MUNI							17 AUGUST 2017				DATE		10/27/2005	



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: 5.49 NM AFTER RAVEN INT OR AT DDC VORTAC 4.91 DME									
FLACK INT				DDC VORTAC				017.00 / 40.02				4400		CLIMB TO 3200 THEN CLIMBING LEFT TURN TO 4400 DIRECT DDC VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 3200 THEN CLIMBING RIGHT TURN TO 4600 ON HEADING 326 AND GCK VORTAC R-086 TO POKPE/GCK 20.42 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 356.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W POKPE, RT, 085.63 INBOUND. CHART FAS OBST: 2699 TREE 374706N/0995859W CHART DDC R-269 AT POKPE. CHART DDC R-076 AT EARPP. CHART CIRCLING ICON.									
POKPE/DDC VORTAC 14.00 DME CW (IAF)				WEROM INT/DDC VORTAC 14.00 DME (NOPT)				14.00 DME ARC (DDC LR-315)				4600											
EARPP/DDC VORTAC 14.00 DME CCW (IAF)				WEROM INT/DDC VORTAC 14.00 DME (NOPT)				14.00 DME ARC (DDC LR-332)				4600											
WEROM INT/DDC VORTAC 14.00 DME (IF)				RAVEN INT				145.83 / 13.36				4400											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 8E EPOCH YEAR: 1990									
2. TEARDROP R-356 (DDC VORTAC)(IAF) OUTBOUND TO OWENJ INT/DDC VORTAC 10.00 DME, 145.83 (I-DDC) INBOUND, 4400 FT*																							
3. FAC: 145.83 FAF: RAVEN INT DIST FAF TO MAP: 5.49 THLD: 5.49																							
4. MIN. ALT: _____																							
5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ - 150 HAT: _____ - 100 HAT: _____ - GS ANT: 1000																							
6. MIN GS INCPT: 4400 GS ALT AT: RAVEN 4400 OM: _____ - _____ MM: _____ - _____ IM: _____ -																							
7. GS ANGLE: 3.00 TCH: 40.0																							
8. MSA FROM: DDC VORTAC 180-320 4600, 320-180 4100																							
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 14	2786	1/2	200	2786	1/2	200	2786	1/2	200	2786	1/2	200											
S-LOC 14	2960	1/2	374	2960	1/2	374	2960	5/8	374	2960	3/4	374											
CIRCLING	3040	1	444	3080	1	484	3320	2	724	3320	2 1/4	724											
NOTES: CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 14 CAT C/D VISIBILITY TO 1 SM.																							
CITY AND STATE DODGE CITY, KS							ELEVATION: 2596 TDZE: 2586 AIRPORT NAME: DODGE CITY RGNL			FACILITY IDENTIFIER: I-DDC			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 14, AMDT 3A 17 AUGUST 2017				SUP: AMDT: 3 DATED 10/27/2005						



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: RW14 CLIMB TO 4600 DIRECT CORKU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 325.90 INBOUND. FAS OBST: 2769 AAO 375052N/1000025W 2779 AAO 375054N/1000142W DISTANCE TO THLD FROM 250 HAT: 0.67 NM. CHART VDP AT 1.20 NM TO RW14* *LNAV ONLY. WAAS CHANNEL # 65609 REFERENCE PATH ID: W14A CHART CIRCLING ICON. LTP HAE: 761.2 M									
OKOLY (IAF)		MILCY (NOPT) (TF) (FB) (RNP 1.00)			235.82 / 5.00			4600											
BOTDO (IAF)		MILCY (NOPT) (TF) (FB) (RNP 1.00)			055.70 / 5.00			4600											
MILCY (IF/IAF)		RAVEN (TF) (FB) (RNP 1.00)			145.76 / 6.01			4400											
RAVEN (FAF)		RW14 (MAP) (TF) (FO) (RNP 0.30)			145.80 / 5.49														
RW14 (MAP)		2836 MSL (CA)			145.80			4600											
2836 MSL		CORKU (DF) (FO) (RNP 1.00)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW MILCY, RT, 145.76 INBOUND, 4600 FT. IN LIEU OF PT (IAF) 3. FAC: 145.80 FAF: RAVEN DIST FAF TO MAP: 5.49 THLD: 5.49 4. MIN. ALT: MILCY 4600, RAVEN 4400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 4400 GS ALT AT: RAVEN 4400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 8E		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	2836	1/2	250	2836	1/2	250	2836	1/2	250	2836	1/2	250							
LNAV/VNAV DA	2991	1	405	2991	1	405	2991	1	405	2991	1	405							
LNAV MDA	3020	1/2	434	3020	1/2	434	3020	3/4	434	3020	3/4	434							
CIRCLING	3040	1	444	3080	1	484	3320	2	724	3320	2 1/4	724							
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/4 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM AND LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM.																			
CITY AND STATE		ELEVATION: 2596 TDZE: 2586			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:							
DODGE CITY, KS		AIRPORT NAME:					RNAV (GPS) RWY 14, AMDT 1B					AMDT: 1A							
		DODGE CITY RGNL					17 AUGUST 2017					DATED 12/10/2015							

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

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TAA

	FROM	TO	ALT
1.	056/30 CW 236/30 (NOPT)	MILCY (IF/IAF) (FB)	4600
2.	236/30 CW 326/30	OKOLY (IAF) (FB)	4600
3.	326/30 CW 056/30	326/20 CW 056/20	4800
4.	326/20 CW 056/20	BOTDO (IAF) (FB)	4600

CITY AND STATE
DODGE CITY, KS

ELEVATION: 2596 TDZE: 2586
AIRPORT NAME:
DODGE CITY RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 14, AMDT 1B
17 AUGUST 2017

SUP:
AMDT: 1A
DATED: 12/10/2015

QUALITY
10
CHECKER

**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	KDDC
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	374623.3715N
LTP/FTP LONGITUDE	0995819.2680W
LTP/FTP ELLIPSOIDAL HEIGHT	+07612
FPAP LATITUDE	374503.3095N
FPAP LONGITUDE	0995729.7240W
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	0648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

A226EF8F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07872
FPAP ORTHOMETRIC HEIGHT	+07872

QUALITY
10
CHECKER

CITY AND STATE

DODGE CITY, KS

ELEVATION: 2596

TDZE: 2586

AIRPORT NAME:

DODGE CITY RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 14, AMDT 1B

17 AUGUST 2017

SUP:

AMDT:

1A

DATED:

12/10/2015

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: 4.91 NM AFTER DDC VORTAC OR AT DDC VORTAC 4.91 DME							
HEPVA/7.00 DME CW (IAF)			EPIC/7.00 DME (NOPT)			7.00 DME ARC				4200		CLIMB TO 4200 THEN LEFT TURN DIRECT DDC VORTAC AND HOLD.							
FIVLI/7.00 DME CCW (IAF)			EPIC/7.00 DME (NOPT)			7.00 DME ARC				4200									
EPIC/7.00 DME (IF)			DDC VORTAC			152.98 / 7.00 (DDC R-333)				4100									
										ADDITIONAL FLIGHT DATA: HOLD NW, LT, 152.98 INBOUND. FAS OBST: 2690 POLE 374617N/0995916W CHART VDP AT 3.71 DME DISTANCE VDP TO THLD 1.13 NM. CHART DDC R-269 AT HEPVA. CHART DDC R-076 AT FIVLI. CHART CIRCLING ICON. DDC VORTAC TO RW14: 2.84/37.									
1. PT <u>R</u> SIDE OF COURSE <u>332.98</u> OUTBOUND <u>4200</u> FT WITHIN <u>10</u> MILES OF <u>DDC VORTAC</u> (IAF)										MAG VAR: 8E EPOCH YEAR:1995									
2.																			
3. FAC <u>152.98</u> FAF <u>DDC VORTAC</u> DIST FAF TO MAP <u>4.91</u> THLD <u>4.91</u>																			
4. MIN. ALT <u>DDC VORTAC 4100</u>																			
8. MSA FROM: <u>DDC VORTAC 180-320 4600, 320-180 4100</u>																			
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-14		3000	1/2	414	3000	1/2	414	3000	3/4	414	3000	1	414						
CIRCLING		3040	1	444	3080	1	484	3320	2	724	3320	2 1/4	724						
NOTES:																			
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).										@ CAT D 800-2 1/4									
CITY AND STATE DODGE CITY, KS		ELEVATION: 2596 TDZE: 2586 AIRPORT NAME: DODGE CITY RGNL			FACILITY IDENTIFIER: DDC			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 14, AMDT 19A 17 AUGUST 2017						SUP AMDT 19 DATE 09/28/2006					

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: RW11										
TAPPA				EGINE (TF) (FB) (RNP 2.00)			017.92 / 15.21				2000		CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2000 DIRECT GOFER AND HOLD.										
EGINE (IAF)				LEKVE (TF) (FB) (RNP 1.00)			022.16 / 8.00				2000												
CAPKO (IAF)				LEKVE (TF) (FB) (RNP 1.00)			192.48 / 21.22				2000												
LEKVE (IF)				ONAFE (TF) (FB) (RNP 1.00)			112.18 / 4.93				1800												
ONAFE (FAF)				DUYEV/3.30 NM TO RW11 (TF) (FB) (RNP 0.30)			112.24 / 1.79						ADDITIONAL FLIGHT DATA: HOLD NE, RT, 225.99 INBOUND. FAS OBST: 269 TREE 381839N/0763343W CHART: 398 TOWER 381913N/0764009W 336 AAO 381959N/0763730W CHART R-4007. CHART R-6611A. CHART R-6613A. CHART WASHINGTON DC METROPOLITAN ADIZ. DISTANCE TO THLD FROM 277 HAT: 0.75 NM. CHART VDP AT 1.07 NM TO RW11* *LNAV ONLY. WAAS CHANNEL # 70502 REFERENCE PATH ID: W11A CHART CIRCLING ICON. LTP HAE: 9.1 M										
(SEE FORM 8260-10)																							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 10W EPOCH YEAR: 1995									
2. PROFILE STARTS AT LEKVE																							
3. FAC: 112.24 FAF: ONAFE DIST FAF TO MAP: 5.09 THLD: 5.09																							
4. MIN. ALT: LEKVE 2000, ONAFE 1800, DUYEV/3.30 NM TO RW11 1220*																							
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																							
6. MIN GS INCPT: 1800 GS ALT AT: ONAFE 1800 OM: _____ MM: _____ IM: _____																							
7. GS ANGLE: 3.00 TCH: 37.4 34:1 IS NOT CLEAR																							
8. MSA FROM: RW11 2100																							
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	419	1	277	419	1	277	419	1	277	419	1	277											
LNAV/VNAV DA	503	1 1/4	361	503	1 1/4	361	503	1 1/4	361	503	1 1/4	361											
LNAV MDA	520	1	378	520	1	378	520	1	378	520	1	378											
CIRCLING	660	1	518	660	1	518	840	2	698	840	2 1/4	698											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PATUXENT RIVER ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TAPPA ON V16-20-157-213 SOUTHWEST BOUND AND V286 (CONTINUED ON PAGE 2)																							
CITY AND STATE LEONARDTOWN, MD				ELEVATION: 142 TDZE: 142 AIRPORT NAME: ST MARY'S COUNTY RGNL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 17 AUGUST 2017					SUP: AMDT: ORIG-B DATED 04/10/2008								



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>
DUYEV/3.30 NM TO RW11	RW11 (MAP) (TF) (FO) (RNP 0.30)	112.24 / 3.30	
RW11 (MAP)	600 MSL (CA)	112.24	600
600 MSL	GOFER (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

SOUTHEAST BOUND .

CHART PLANVIEW NOTE: WASHINGTON DC ADIZ, CTC POTOMAC APP CON

CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED; USE PATUXENT RIVER ALTIMETER SETTING AND INCREASE LPV DA TO 452, LNAV/VNAV DA TO 534 AND ALL MDA 40FT, INCREASE LNAV/VNAV ALL CATS VISIBILITIES 1/8 SM AND LNAV CATS C/D VISIBILITIES 1/8 SM

QUALITY
22
CHECKED

CITY AND STATE

LEONARDTOWN, MD

ELEVATION: 142

TDZE: 142

AIRPORT NAME:

ST MARY'S COUNTY RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 11, AMDT 1

17 AUGUST 2017

SUP:

AMDT: **ORIG-B**

DATED: **04/10/2008**

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	2W6
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	381859.6580N
LTP/FTP LONGITUDE	0763325.8505W
LTP/FTP ELLIPSOIDAL HEIGHT	+00091
FPAP LATITUDE	381840.6275N
FPAP LONGITUDE	0763135.2500W
THRESHOLD CROSSING HEIGHT (TCH)	00037.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1488
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 06EE4D2C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00432
FPAP ORTHOMETRIC HEIGHT	+00432

QUALITY
22
CHECKED

CITY AND STATE LEONARDTOWN, MD	ELEVATION: 142 AIRPORT NAME: ST MARY'S COUNTY RGNL	TDZE: 142 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-B
				DATED: 04/10/2008

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: RW29									
COLIN				FABAV (TF) (FB) (RNP 2.00)				089.31 / 14.81				2000		CLIMB TO 700 THEN CLIMBING LEFT TURN TO 5000 DIRECT COLIN AND HOLD, CONTINUE CLIMB IN HOLD TO 5000.									
FABAV (IAF)				JAGUX (TF) (FB) (RNP 1.00)				022.44 / 8.00				2000											
GOFER (IAF)				JAGUX (TF) (FB) (RNP 1.00)				202.71 / 8.80				2000											
JAGUX (IF)				ASIZE (TF) (FB) (RNP 1.00)				292.46 / 5.20				2000											
ASIZE (FAF)				RW29 (MAP) (TF) (FO) (RNP 0.30)				292.39 / 5.58															
(SEE FORM 8260-10)														ADDITIONAL FLIGHT DATA: HOLD W, RT, 080.72 INBOUND. CHART FAS OBST: 310 TANK 381821N/0763238W CHART R-4005, R-4007, R-6611A, R-6613A. DISTANCE TO THLD FROM 304 HAT: 0.84 NM. CHART VDP AT 1.45 NM TO RW29* *LNAV ONLY. WAAS CHANNEL # 61313 REFERENCE PATH ID: W29A CHART CIRCLING ICON. LTP HAE: 4 M									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 10W EPOCH YEAR: 1995									
2. PROFILE STARTS AT JAGUX																							
3. FAC: 292.39 FAF: ASIZE DIST FAF TO MAP: 5.58 THLD: 5.58																							
4. MIN. ALT: JAGUX 2000, ASIZE 2000																							
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																							
6. MIN GS INCPT: 2000 GS ALT AT: ASIZE 2000 OM: _____ MM: _____ IM: _____																							
7. GS ANGLE: 3.10 TCH: 40.0 34:1 IS NOT CLEAR																							
8. MSA FROM: RW29 2100																							
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	441	1	304	441	1	304	441	1	304	441	1	304											
LNAV/VNAV DA	533	1 3/8	396	533	1 3/8	396	533	1 3/8	396	533	1 3/8	396											
LNAV MDA	620	1	483	620	1	483	620	1 3/8	483	620	1 3/8	483											
CIRCLING	660	1	518	660	1	518	840	2	698	840	2 1/4	698											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 50C (122F). CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PUTAXENT RIVER ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																							
CITY AND STATE LEONARDTOWN, MD				ELEVATION: 142 TDZE: 137 AIRPORT NAME: ST MARY'S COUNTY RGNL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29, AMDT 1 17 AUGUST 2017					SUP: AMDT: ORIG DATED 07/30/2009								

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW29 (MAP)	700 MSL (CA)	292.39	700
700 MSL	COLIN (DF) (FO) (RNP 1.00)		5000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT COLIN ON V16-157-213 SOUTHWEST BOUND AND V20-33 SOUTHBOUND AND AT GOFER ON V16-157-213-229 NORTHEAST BOUND.

CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PATUXENT RIVER ALTIMETER SETTING AND INCREASE ALL LPV DA TO 472, LNAV/VNAV DA TO 584 AND ALL MDA 40 FEET, INCREASE LPV VISIBILITY ALL CATS 1/8 SM, INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, AND INCREASE LNAV CATS C AND D VISIBILITY 1/8 SM.

QUALITY
22
CHECKED

CITY AND STATE

LEONARDTOWN, MD

ELEVATION: 142

TDZE: 137

AIRPORT NAME:

ST MARY'S COUNTY RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 29, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG

DATED: 07/30/2009

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	2W6
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	381850.9085N
LTP/FTP LONGITUDE	0763234.9850W
LTP/FTP ELLIPSOIDAL HEIGHT	+00040
FPAP LATITUDE	381909.9260N
FPAP LONGITUDE	0763425.5940W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1488
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	A1DA9E83

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00381
FPAP ORTHOMETRIC HEIGHT	+00381

QUALITY
22
CHECKED

CITY AND STATE LEONARDTOWN, MD	ELEVATION: 142 AIRPORT NAME: ST MARY'S COUNTY RGNL	TDZE: 137 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG
				DATED: 07/30/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: AIT NDB						
GPZ VOR/DME		AIT NDB			185.82 / 37.71			3100		CLIMB TO 3000 THEN LEFT TURN DIRECT AIT NDB AND HOLD.						
										ADDITIONAL FLIGHT DATA: HOLD N, LT, 169.44 INBOUND. FAS OBST: 1589 AAO 464216N/0934341W CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 3004 FT FROM THLD.						
1. PT <u>L</u> SIDE OF COURSE <u>349.44</u> OUTBOUND <u>3000</u> FT WITHIN <u>10</u> MILES OF <u>AIT NDB</u> (IAF)																
2.																
3. FAC <u>169.44</u> FAF _____ DIST FAF TO MAP _____ THLD _____																
4. MIN. ALT _____																
8. MSA FROM: <u>AIT NDB 2900</u>										MAG VAR: <u>0E</u>			EPOCH YEAR: <u>2015</u>			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N		A		X					
CATEGORY =====>		A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-16	1940	1	734	1940	1	734	1940	2	734		NA					
CIRCLING	1940	1	734	1940	1	734	1940	2	734		NA					
NOTES:																
CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MCGREGOR ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET, ALL CAT B VISIBILITIES 1/4 MILE AND ALL CAT C VISIBILITIES 1/2 MILE.																
CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.																
CITY AND STATE AITKIN, MN		ELEVATION: 1206 AIRPORT NAME: AITKIN MUNI-STEVE KURTZ FIELD			TDZE: 1206		FACILITY IDENTIFIER: AIT		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 16, AMDT 5C 17 AUGUST 2017				SUP AMDT 5B DATE 08/20/2015			



RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW16 CLIMB TO 3400 DIRECT MIDPE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 344.49 INBOUND. CHART FAS OBST: 1309 TREE 463318N/0933947W CHART: 1320 CRANE 463534N/0934113W DISTANCE TO THLD FROM 312 HAT: 0.86 NM. CHART VDP AT 1.03 NM TO RW16* *LNAV ONLY. WAAS CHANNEL # 78131 REFERENCE PATH ID: W16A CHART CIRCLING ICON. LTP HAE: 339.6 M						
BRNRD		ZAPUB (TF) (FO) (RNP 2.00)			024.17 / 26.97			3400								
GPZ VOR/DME (IAF)		ZAPUB (NOPT) (TF) (FB) (RNP 1.00)			204.56 / 26.74			3400								
ZAPUB (IF/IAF)		RIYOR (TF) (FB) (RNP 1.00)			164.38 / 7.08			3000								
RIYOR (FAF)		WIMAG/2.00 NM TO RW16 (TF) (FB) (RNP 0.30)			164.41 / 3.51											
WIMAG/2.00 NM TO RW16		RW16 (MAP) (TF) (FO) (RNP 0.30)			164.41 / 2.00											
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N ZAPUB, LT, 164.38 INBOUND, 3400 FT. IN LIEU OF PT (IAF) 3. FAC: 164.41 FAF: RIYOR DIST FAF TO MAP: 5.51 THLD: 5.51 4. MIN. ALT: ZAPUB 3400, RIYOR 3000, WIMAG/2.00 NM TO RW16 1880* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3000 GS ALT AT: RIYOR 3000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: RW16 2900																
										MAG VAR: 0E EPOCH YEAR: 2015						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @				
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1518	1	312	1518	1	312	1518	1	312		NA					
LNAV/VNAV DA	1607	1 3/8	401	1607	1 3/8	401	1607	1 3/8	401		NA					
LNAV MDA	1560	1	354	1560	1	354	1560	1	354		NA					
CIRCLING	1780	1	574	1780	1	574	1900	2	694		NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MC GREGOR ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																
CITY AND STATE			ELEVATION: 1206 TDZE: 1206			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
AITKIN, MN			AIRPORT NAME:						RNAV (GPS) RWY 16, AMDT 1				AMDT: ORIG-B			
			AITKIN MUNI-STEVE KURTZ FIELD						17 AUGUST 2017				DATED 08/20/2015			



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW16 (MAP)	1518 MSL (CA)	164.41	
1518 MSL	MIDPE (DF) (FO) (RNP 1.00)		3400

NOTES, (CONT.):

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED; USE MC GREGOR ALTIMETER SETTING AND INCREASE ALL DA AND MDA 40 FEET; INCREASE LPV ALL CATS VISIBILITIES 1/4 SM, LNAV/VNAV ALL CATS AND LNAV CAT C VISIBILITIES 1/8 SM.

CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.

CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GPZ VOR/DME AIRWAY RADIALS 172 CW 286.

QUALITY
16
CHECKED

CITY AND STATE

AITKIN, MN

ELEVATION: 1206

TDZE: 1206

AIRPORT NAME:

AITKIN MUNI-STEVE KURTZ FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG-B

DATED: 08/20/2015

**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	KAIT
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	463321.4640N
LTP/FTP LONGITUDE	0934035.2080W
LTP/FTP ELLIPSOIDAL HEIGHT	+03396
FPAP LATITUDE	463155.6600N
FPAP LONGITUDE	0934000.5900W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 4F6CD5C0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03675
FPAP ORTHOMETRIC HEIGHT	+03675

QUALITY
16
CHECKED

CITY AND STATE AITKIN, MN	ELEVATION: 1206 AIRPORT NAME: AITKIN MUNI-STEVE KURTZ FIELD	TDZE: 1206	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1 17 AUGUST 2017	SUP:
					AMDT: ORIG-B
					DATED: 08/20/2015

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW34 CLIMB TO 3400 DIRECT ZAPUB AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, LT, 164.38 INBOUND. CHART FAS OBST: 1420 TOWER 463225N/0933925W DISTANCE TO THLD FROM 342 HAT: 0.95 NM. WAAS CHANNEL # 82431 REFERENCE PATH ID: W34A CHART CIRCLING ICON. LTP HAE: 339.7 M								
LINDR (IAF)	MIDPE (NOPT) (TF) (FB) (RNP 1.00)	329.74 / 13.83	3400									
GOLLF (IAF)	MIDPE (NOPT) (TF) (FB) (RNP 1.00)	006.61 / 36.68	3400									
YEPSU (IAF)	MIDPE (NOPT) (TF) (FB) (RNP 1.00)	054.56 / 17.44	3400									
MIDPE (IF/IAF)	YOCUV (TF) (FB) (RNP 1.00)	344.49 / 6.00	3000									
YOCUV (FAF)	NEYIY/1.80 NM TO RW34 (TF) (FB) (RNP 0.30)	344.47 / 3.71										
(SEE FORM 8260-10)												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S MIDPE, RT, 344.49 INBOUND, 3400 FT. IN LIEU OF PT (IAF) 3. FAC: 344.47 FAF: YOCUV DIST FAF TO MAP: 5.51 THLD: 5.51 4. MIN. ALT: MIDPE 3400, YOCUV 3000, NEYIY/1.80 NM TO RW34 1800* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3000 GS ALT AT: YOCUV 3000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 39.0 34:1 IS NOT CLEAR 8. MSA FROM: RW34 2900												
				MAG VAR: 0E EPOCH YEAR: 2015								
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	1548	1 1/8	342	1548	1 1/8	342	1548	1 1/8	342		NA	
LNAV/VNAV DA	1620	1 3/8	414	1620	1 3/8	414	1620	1 3/8	414		NA	
LNAV MDA	1720	1	514	1720	1	514	1720	1 3/8	514		NA	
CIRCLING	1780	1	574	1780	1	574	1900	2	694		NA	
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING MC GREGOR ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LINDR ON V218 SOUTHBOUND, AND ARRIVALS AT YEPSU AND (CONTINUED ON PAGE 2)												
CITY AND STATE		ELEVATION: 1206 TDZE: 1206		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
AITKIN, MN		AIRPORT NAME:				RNAV (GPS) RWY 34, AMDT 1			AMDT: ORIG-B			
		AITKIN MUNI-STEVE KURTZ FIELD				17 AUGUST 2017			DATED 08/20/2015			

QUALITY
 16
 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
NEYIY/1.80 NM TO RW34	RW34 (MAP) (TF) (FO) (RNP 0.30)	344.47 / 1.80	
RW34 (MAP)	1548 MSL (CA)	344.47	
1548 MSL	ZAPUB (DF) (FO) (RNP 1.00)		3400

NOTES, (CONT.):

GOLLF ON T383 SOUTHBOUND.

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED; USE MC GREGOR ALTIMETER SETTING AND INCREASE

ALL DA 40 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE ALL MDA 40 FEET AND LNAV CAT C VISIBILITY 1/4

SM.

CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.

CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

QUALITY
16
CHECKED

CITY AND STATE

AITKIN, MN

ELEVATION: 1206

TDZE: 1206

AIRPORT NAME:

AITKIN MUNI-STEVE KURTZ FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG-B

DATED: 08/20/2015

**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	KAIT
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	463243.4260N
LTP/FTP LONGITUDE	0934019.8580W
LTP/FTP ELLIPSOIDAL HEIGHT	+03397
FPAP LATITUDE	463409.2265N
FPAP LONGITUDE	0934054.5005W
THRESHOLD CROSSING HEIGHT (TCH)	00039.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 362CCF19

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03676
FPAP ORTHOMETRIC HEIGHT	+03676

QUALITY
16
CHECKED

CITY AND STATE AITKIN, MN	ELEVATION: 1206 AIRPORT NAME: AITKIN MUNI-STEVE KURTZ FIELD	TDZE: 1206 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-B
				DATED: 08/20/2015

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
NDB STANDARD INSTRUMENT APPROACH PROCEDURE																	
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27																	
TERMINAL ROUTES										MISSED APPROACH							
FROM			TO			COURSE AND DISTANCE			ALTITUDE		MAP: PWC NDB						
PKD VOR/DME			PWC NDB			105.71 / 30.07			3200		CLIMB TO 3100 THEN RIGHT TURN DIRECT PWC NDB AND HOLD.						
										ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.49 INBOUND. CHART FAS OBST: 1720 TOWER 463656N/0941818W FAC 498 FT L OF RWY C/L EXTENDED 3000 FT FROM THLD.							
1. PT <u>L</u> SIDE OF COURSE <u>160.49</u> OUTBOUND <u>3100</u> FT WITHIN <u>10</u> MILES OF <u>PWC NDB</u> (IAF)																	
2.																	
3. FAC <u>340.49</u> FAF _____ DIST FAF TO MAP _____ THLD _____																	
4. MIN. ALT _____																	
8. MSA FROM: PWC NDB 3400										MAG VAR: 3E EPOCH YEAR: 2000							
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-34	2080	1	784	2080	1 1/4	784	2080	2 1/2	784		NA						
CIRCLING	2080	1	784	2080	1 1/4	784	2080	2 1/2	784		NA						
NOTES:																	
CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																	
CITY AND STATE		ELEVATION: 1296			TDZE: 1296			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP		
PINE RIVER, MN		AIRPORT NAME:			PINE RIVER RGNL			PWC		NDB RWY 34, AMDT 1A					AMDT 1		
										17 AUGUST 2017					DATE 11/30/2000		



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: 5.36 NM AFTER OBLIO LOM/INT/I-STL 7.25 DME/RADAR OR AT I-LMR 1.89 DME CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 5000 ON STL VORTAC R-128 TO FONTI INT/22.44 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ALTERNATE MA (DO NOT CHART): CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3000 DIRECT TOY VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 308.40 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E TOY VORTAC, RT, 270.00 INBOUND. CHART FAS OBST: 697 TREE 384538N/0902343W CHART 714 TREE 384551N/0902302W. 759 AAO 384751N/0902859W. CHART VDP AT 3.04 DME* DISTANCE VDP TO THLD 1.15 NM. *LOC ONLY. CHART IN PLANVIEW: TOY VORTAC. CHART LOC RWY 11.										
SADEN INT (IAF)				PAULY/17.83 DME/RADAR				078.00 / 2.07 & 122.19 / 1.73 (I-LMR)						4500												
PAULY/17.83 DME/RADAR (IF)				NAIRN/12.49 DME/RADAR				123.19 / 5.34 (I-LMR)						3600												
NAIRN/12.49 DME/RADAR				OBLIO LOM/INT/7.25 DME/RADAR				123.19 / 5.24 (I-LMR)						2400												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PAULY 3. FAC: <u>123.19</u> FAF: <u>OBLIO LOM/INT/7.25 DME/RADAR</u> DIST FAF TO MAP: <u>5.36</u> THLD: <u>5.36</u> 4. MIN. ALT: <u>PAULY 4500, NAIRN 3600, ST LOUIS OM 2400</u> 5. DIST TO THLD FROM OM: <u>5.36</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1152</u> 6. MIN GS INCPT: <u>2400</u> GS ALT AT: <u>-</u> OM: <u>2327</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.4</u> 8. MSA FROM: <u>LM LOM 3000</u>																	MAG VAR: 1W					EPOCH YEAR: 2020				
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD				LOC: STANDARD												
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
S-ILS 12R	740	1800	200	740	1800	200	740	1800	200	740	1800	200	740	1800	200											
S-LOC 12R	960	4000	420	960	4000	420	960	4000	420	960	4000	420	960	4000	420											
SIDESTEP 12L	980	1	439	980	1	439	980	1 1/2	439	980	2	439	980	2	439											
NOTES: CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP RWY 12L. CHART NOTE: RWY 12R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 11. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 12R CAT E VISIBILITY TO RVR 4000, S-LOC 12R CATS (CONTINUED ON PAGE 2)																										
CITY AND STATE ST LOUIS, MO				ELEVATION: 618 AIRPORT NAME: ST LOUIS LAMBERT INTL		TDZE: 12R 540 TDZE: 12L 541		FACILITY IDENTIFIER: I-LMR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 12R, AMDT 22B 17 AUGUST 2017				SUP:												
														AMDT: 22A												
														DATED 05/29/2014												



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

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

NOTES, (CONT.):
A/B TO RVR 5000, CAT E TO RVR 6000.
CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SADEN ON V4 WESTBOUND.



CITY AND STATE ST LOUIS, MO	ELEVATION: 618 AIRPORT NAME: ST LOUIS LAMBERT INTL	TDZE: 12R 540 TDZE: 12L 541	FACILITY IDENTIFIER: I-LMR	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 12R, AMDT 22B 17 AUGUST 2017	SUP:
					AMDT: 22A
					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: 4.71 NM AFTER MOIDD OM/INT									
MOODS INT (IAF)			FONTI INT/STL 22.44 DME			360.00 / 1.65 & 303.20 / 4.27 (I-BKY)			4500			CLIMB TO 3000 THEN DIRECT OBLIO LOM/INT AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 1040 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 283.00 AND CSX VOR/DME R-280 TO HULSO/CSX 16.00 DME AND HOLD W, LT, 100.00 INBOUND. (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD NW, LT, 123.20 INBOUND. CHART FAS OBST: 769 TREE 384221N/0901745W CHART: ALTERNATE MA HOLDING, HOLD W HULSO/CSX 16.00 DME, LT, 100.00 INBOUND.									
FONTI INT/STL 22.44 DME (IF)			JOICE/STL 19.02 DME			303.20 / 3.46 (I-BKY)			3500												
JOICE/STL 19.02 DME			MOIDD OM/INT			303.20 / 4.81 (I-BKY)			2200												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)												MAG VAR: 1W EPOCH YEAR: 2020									
2. PROFILE STARTS AT FONTI																					
3. FAC: 303.20 FAF: MOIDD OM/INT DIST FAF TO MAP: 4.71 THLD: 4.71																					
4. MIN. ALT: FONTI 4500, JOICE 3500, MOIDD OM 2200																					
5. DIST TO THLD FROM OM: 4.71 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1425																					
6. MIN GS INCPT: 2200 GS ALT AT: - OM: 2162 MM: - IM: -																					
7. GS ANGLE: 3.00 TCH: 57.8																					
8. MSA FROM: STL VORTAC 090-270 2800, 270-090 2300																					
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD			LOC: STANDARD									
CATEGORY =====>		A			B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA						
S-ILS 30L	783	2400	200	783	2400	200	783	2400	200	783	2400	200	783	2400	200						
S-LOC 30L	1140	2400	557	1140	2400	557	1140	5000	557	1140	6000	557	1140	1 1/2	557						
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29 AND RWY 30R. CHART NOTE: ADF REQUIRED. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000 AND S-LOC CAT E VISIBILITY TO 2 MILES. CHART NOTE: * RVR 1800 AUTHORIZED WITH THE USE OF HD OR AP OR HUD TO DA.																					
CITY AND STATE ST LOUIS, MO			ELEVATION: 618 TDZE: 583 AIRPORT NAME: ST LOUIS LAMBERT INTL				FACILITY IDENTIFIER: I-BKY		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 30L, AMDT 12B 17 AUGUST 2017						SUP: AMDT: 12A DATED 04/05/2012						



RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM	TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12R CLIMB TO 5000 DIRECT FONTI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 309.40 INBOUND. CHART IN PLANVIEW: MAXIMUM HOLDING AIRSPEED 230 KIAS. CHART FAS OBST: 741 OL ANT 384548N/0902243W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.28 NM TO RW12R* *LNAV ONLY. WAAS CHANNEL # 78121 REFERENCE PATH ID: W12B CHART LOC RWY 11 AND 12L LTP HAE: 133.2 M						
FTZ VORTAC (IAF)	PAULY (TF) (FB) (RNP 1.00)			050.97 / 18.69			4500								
PAULY (IF)	NAIRN (TF) (FB) (RNP 1.00)			123.00 / 5.34			3600								
NAIRN	TUDNE (TF) (FB) (RNP 1.00)			123.05 / 4.92			2400								
TUDNE (FAF)	RW12R (MAP) (TF) (FO) (RNP 0.30)			123.13 / 5.67											
RW12R (MAP)	740 MSL (CA)			123.13											
740 MSL	FONTI (DF) (FO) (RNP 1.00)														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PAULY 3. FAC: <u>123.13</u> FAF: <u>TUDNE</u> DIST FAF TO MAP: <u>5.67</u> THLD: <u>5.67</u> 4. MIN. ALT: <u>PAULY 4500, NAIRN 3600, TUDNE 2400</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2400</u> GS ALT AT: <u>TUDNE 2400</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.4</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW12R 3000</u>										MAG VAR: 1W EPOCH YEAR: 2020					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD						
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	740	1800	200	740	1800	200	740	1800	200	740	1800	200	740	1800	200
LNAV/VNAV DA	1103	2	563	1103	2	563	1103	2	563	1103	2	563	1103	2	563
LNAV MDA	1000	4000	460	1000	4000	460	1000	4000	460	1000	5000	460	1000	5000	460
NOTES: CHART NOTE: RWY 12R 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 FTZ VORTAC AIRWAY RADIALS 003 CW 095. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). (CONTINUED ON PAGE 2)															
CITY AND STATE			ELEVATION: 618 TDZE: 540			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		
ST LOUIS, MO			AIRPORT NAME:						RNAV (GPS) Y RWY 12R, AMDT 1C				AMDT: 1B		
			ST LOUIS LAMBERT INTL						17 AUGUST 2017				DATED 09/20/2012		



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

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NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV CATS A/B TO RVR 5000 AND CAT E VISIBILITY TO 1 1/2.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 11 AND RWY 12L.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

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

QUALITY
29
CHECKED

CITY AND STATE
ST LOUIS, MO

ELEVATION: 618 TDZE: 540
AIRPORT NAME:
ST LOUIS LAMBERT INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 12R, AMDT 1C
17 AUGUST 2017

SUP:
AMDT: 1B
DATED: 09/20/2012

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSTL
RUNWAY	RW12R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12B
LTP/FTP LATITUDE	384511.5885N
LTP/FTP LONGITUDE	0902239.9755W
LTP/FTP ELLIPSOIDAL HEIGHT	+01332
FPAP LATITUDE	384416.0100N
FPAP LONGITUDE	0902047.2700W
THRESHOLD CROSSING HEIGHT (TCH)	00054.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

880D21BE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+01645
FPAP ORTHOMETRIC HEIGHT	+01645

QUALITY
29
CHECKED

CITY AND STATE

ST LOUIS, MO

ELEVATION: 618

TDZE: 540

AIRPORT NAME:

ST LOUIS LAMBERT INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 12R, AMDT 1C

17 AUGUST 2017

SUP:

AMDT:

1B

DATED:

09/20/2012

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW30L												
SUGAR (IAF)				FONTI (TF) (FB) (RNP 1.00)				294.49 / 14.82				4500		CLIMB TO 3000 DIRECT OBLIO LOM AND HOLD, CONTINUE CLIMB- IN-HOLD TO 3000.												
FONTI (IF)				ZETGO (TF) (FB) (RNP 1.00)				303.34 / 3.46				3500														
ZETGO				TORME (TF) (FB) (RNP 1.00)				303.31 / 4.62				2200														
TORME (FAF)				RW30L (MAP) (TF) (FO) (RNP 0.30)				303.26 / 4.90																		
RW30L (MAP)				783 MSL (CA)				303.26						ADDITIONAL FLIGHT DATA: HOLD NW, LT, 123.20 INBOUND. FAS OBST: 849 AAO 384200N/0901721W DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 1.44 NM TO RW30L* *LNAV ONLY. WAAS CHANNEL # 99621 REFERENCE PATH ID: W30B CHART IN PLANVIEW: MAXIMUM HOLDING AIRSPEED 230 KIAS. CHART LOC RWY 29 AND 30R LTP HAE: 146.3 M												
783 MSL				OBLIO LOM (DF) (FO) (RNP 1.00)								3000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																										
2. PROFILE STARTS AT FONTI																										
3. FAC: 303.26 FAF: TORME DIST FAF TO MAP: 4.90 THLD: 4.90																										
4. MIN. ALT: FONTI 4500, ZETGO 3500, TORME 2200																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: 2200 GS ALT AT: TORME 2200 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 57.8 34:1 IS CLEAR																										
8. MSA FROM: RW30L 3000																										
MAG VAR: 1W EPOCH YEAR: 2020																										
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			STANDARD																
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
LPV DA**	783	2400	200	783	2400	200	783	2400	200	783	2400	200	783	2400	200											
LNAV/VNAV DA	988	5000	405	988	5000	405	988	5000	405	988	5000	405	988	5000	405											
LNAV MDA	1100	2400	517	1100	2400	517	1100	5000	517	1100	6000	517	1100	6000	517											
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SUGAR ON V44 EASTBOUND. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: FOR INOPERATIVE MALSR INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E (CONTINUED ON PAGE 2)																										
CITY AND STATE ST LOUIS, MO				ELEVATION: 618 TDZE: 583 AIRPORT NAME: ST LOUIS LAMBERT INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 30L, AMDT 1C 17 AUGUST 2017						SUP: AMDT: 1B DATED 09/20/2012										

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

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

NOTES, (CONT.):

VISIBILITY TO 1 1/2 AND LNAV CAT E VISIBILITY TO 1 3/4.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29 AND RWY 30R.

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

QUALITY
29
CHECKED

CITY AND STATE ST LOUIS, MO	ELEVATION: 618 TDZE: 583 AIRPORT NAME: ST LOUIS LAMBERT INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 30L, AMDT 1C 17 AUGUST 2017	SUP:
				AMDT: 1B
				DATED: 09/20/2012

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSTL
RUNWAY	RW30L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30B
LTP/FTP LATITUDE	384417.0760N
LTP/FTP LONGITUDE	0902049.4240W
LTP/FTP ELLIPSOIDAL HEIGHT	+01463
FPAP LATITUDE	384514.0500N
FPAP LONGITUDE	0902244.9700W
THRESHOLD CROSSING HEIGHT (TCH)	00057.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

11CDFFC5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+01776
FPAP ORTHOMETRIC HEIGHT	+01776

QUALITY
29
CHECKED

CITY AND STATE

ST LOUIS, MO

ELEVATION: 618

TDZE: 583

AIRPORT NAME:

ST LOUIS LAMBERT INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 30L, AMDT 1C

17 AUGUST 2017

SUP:

AMDT:

1B

DATED:

09/20/2012

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 5000 ON TRACK 123.17 TO FONTI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 309.40 INBOUND. CHART FAS OBST: 697 TREE 384538N/0902343W ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S DISTANCE TO THLD FROM 458 HAT: 1.27 NM. #TCH 594.2 (DO NOT CHART) CHART MANDATORY 7000 AT STAAN CHART AT OR ABOVE 5000 AT RRIPP AND HRBEE CHART AT OR ABOVE 6000 AT JACSN CHART AT OR ABOVE 8000, AT OR BELOW 9000 AT VEEGE					
STAAN (IAF)		KARRP (TF) (FB) (RNP 1.00)		083.65 / 5.53				6000							
KARRP		AARBY (TF) (FB) (RNP 1.00)		083.70 / 4.21				4000							
AARBY (IF)		FAULK (TF) (FB) (RNP 1.00)		085.27 / 6.80				3000							
JACSN (IAF)		PAULY (TF) (FB) (RNP 1.00)		122.95 / 3.14				5000							
PAULY		NAIRN (TF) (FB) (RNP 1.00)		123.00 / 5.34				3600							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT HOPWD _____															
3. FAC: <u>123.15</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: <u>HOPWD 1700</u>															
5. DIST TO THLD FROM OM: <u>3.47</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: <u>1700</u> GS ALT AT: <u>HOPWD 1700</u> OM: _____ MM: _____ IM: _____															
7. GS ANGLE: <u>3.00</u> TCH: <u>54.4</u> <u>34:1 IS NOT CLEAR</u>															
8. MSA FROM: <u>RW12R 3000</u>															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA	998	6000	458	998	6000	458	998	6000	458	998	6000	458			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (3F) OR ABOVE 40C (105F). CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED CHART PLANVIEW NOTE ADJACENT TO RRIPP IF: RF REQUIRED. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 618 TDZE: 540				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
ST LOUIS, MO		AIRPORT NAME:						RNAV (RNP) Z RWY 12R, ORIG-B				AMDT: ORIG-A			
		ST LOUIS LAMBERT INTL						17 AUGUST 2017				DATED 05/29/2014			

QUALITY
29
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	
NAIRN	FAULK (TF) (FB) (RNP 1.00)	123.07 / 2.19	3000	
VEEGE (IAF)	YADDI (TF) (FB) (RNP 1.00)	148.06 / 10.27	5500	
YADDI	CORDL (TF) (RNP 1.00)	148.13 / 5.70	4000	
CORDL (IF)	FAULK (TF) (FB) (RNP 1.00)	149.80 / 6.35	3000	
FAULK	KLISH (TF) (RNP 1.00)	123.06 / 2.83	2300	
RRIPP (IF)	DUZER (TF) (FB) (RNP 1.00)	302.79 / 2.91	5000	
DUZER	KLISH (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CW (CFBPW))/7.87	2300	
HRBEE (IF)	BUFEE (TF) (FB) (RNP 1.00)	301.32 / 2.89	5000	
BUFEE	KLISH (RF) (FB) (RNP 1.00)	(2.91 NM RADIUS CCW (CFBPZ))/9.04	2300	
KLISH	HOPWD (TF) (FB) (RNP 1.00)	123.13 / 2.11	1700	
HOPWD (FAF)	RW12R (MAP) (TF) (FO) (RNP 0.30)	123.15 / 3.47		
RW12R (MAP)	FONTI (TF) (FO) (RNP 1.00)	123.17	5000	
NOTES, (CONT.):				
CHART PLANVIEW NOTE ADJACENT TO HRBEE IF: RF REQUIRED.				
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/2.				
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 11 AND RWY 12L. USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.				
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.				
CHART PLANVIEW NOTE AT KLISH: MAX 180 KIAS.				
CHART PLANVIEW NOTE AT DUZER: MAX 210 KIAS.				
CHART PLANVIEW NOTE AT BUFEE: MAX 210 KIAS.				
CITY AND STATE	ELEVATION: 618	TDZE: 540	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ST LOUIS, MO	AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 12R, ORIG-B
	ST LOUIS LAMBERT INTL			17 AUGUST 2017
			SUP:	
			AMDT:	ORIG-A
			DATED:	05/29/2014



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 3000 DIRECT OBLIO LOM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 123.20 INBOUND. CHART FAS OBST: 723 TREE 384349N/0902026W CHART FAS OBST: 674 TOWER 384427N/0901948W ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S DISTANCE TO THLD FROM 360 HAT: 0.95 NM. CHART MINIMUM 6000 AT FDRKO AND MAXIMUM 7000 AT FDRKO. CHART MINIMUM 8000 AT TEEBE AND MAXIMUM 9000 AT TEEBE. CHART MINIMUM 6000 AT KAAE. CHART MINIMUM 5000 AT PEJAA. CHART MINIMUM 5000 AT JYAAR. #TCH 640.6 (DO NOT CHART)						
FDRKO (IAF)		SHREC (TF) (FB) (RNP 1.00)			250.93 / 6.06			5000								
KAAE (IAF)		FONTI (TF) (FB) (RNP 1.00)			303.44 / 4.26			4300								
TEEBE (IAF)		BUSO (TF) (FB) (RNP 1.00)			349.91 / 12.81			5000								
SHREC (IF)		ZETGO (TF) (FB) (RNP 1.00)			252.04 / 5.35			3500								
FONTI (IF)		ZETGO (TF) (FB) (RNP 1.00)			303.34 / 3.46			3500								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT SAYIT _____ 3. FAC: <u>303.26</u> FAF: _____ DIST FAF TO MAP: <u>4.90</u> THLD: _____ 4. MIN. ALT: <u>SAYIT 2200</u> 5. DIST TO THLD FROM OM: <u>4.90</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2200</u> GS ALT AT: <u>SAYIT 2200</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>57.8#</u> <u>34:1 IS CLEAR</u> 8. MSA FROM: <u>RW30L 3000</u>																
										MAG VAR: <u>1W</u> EPOCH YEAR: <u>2020</u>						
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	943	3200	360	943	3200	360	943	3200	360	943	3200	360				
RNP 0.30 DA	1000	4500	417	1000	4500	417	1000	4500	417	1000	4500	417				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (3F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED CHART PLANVIEW NOTE ADJACENT TO JYAAR IF: RF REQUIRED. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 618 TDZE: 583			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:			
ST LOUIS, MO		AIRPORT NAME:						RNAV (RNP) Z RWY 30L, ORIG-B					AMDT: ORIG			
		ST LOUIS LAMBERT INTL						17 AUGUST 2017					DATED 01/10/2013			

QUALITY
29
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	
BUSSO (IF)	ZETGO (TF) (FB) (RNP 1.00)	345.94 / 5.18	3500	
JYAAR (IF)	DOBLZ (TF) (FB) (RNP 1.00)	123.48 / 3.00	5000	
DOBLZ	LIZZK (RF) (FB) (RNP 1.00)	(2.63 NM RADIUS CW (CFPTW))/8.25	2500	
ZETGO	LIZZK (TF) (FB) (RNP 1.00)	303.30 / 3.70	2500	
LIZZK	SAYIT (TF) (FB) (RNP 0.30)	303.31 / .92	2200	
PEJAA (IF)	ALMAC (TF) (FB) (RNP 1.00)	123.20 / 3.11	5000	
ALMAC	SLAYY (RF) (FB) (RNP 1.00)	(2.83 NM RADIUS CCW (CFBPQ))/4.50	3600	
SLAYY	SAYIT (RF) (FB) (RNP 1.00)	(2.83 NM RADIUS CCW (CFBPQ))/4.40	2200	
SAYIT (FAF)	RW30L (MAP) (TF) (FO) (RNP 0.30)	303.26 / 4.90		
RW30L (MAP)	943 MSL (CA)	303.26		
943 MSL	OBLIO LOM (DF) (FO) (RNP 1.00)		3000	
NOTES, (CONT.):				
CHART PLANVIEW NOTE ADJACENT TO PEJAA IF: RF REQUIRED.				
CHART PLANVIEW NOTE AT FDRKO: (RNP 0.30).				
CHART PLANVIEW NOTE AT KAACE: (RNP 0.30).				
CHART PLANVIEW NOTE AT TEEBE: (RNP 0.30).				
CHART PLANVIEW NOTE AT JYAAR: (RNP 0.30).				
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.				
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29 AND 30R.				
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.				
CHART NOTE: FOR INOP MALSR, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 6000, AND RNP 0.30 ALL CATS VISIBILITY TO 1 3/8.				
CHART PLANVIEW NOTE AT JYAAR: MAX 210 KIAS.				
CHART PLANVIEW NOTE AT PEJAA: MAX 210 KIAS.				
CITY AND STATE	ELEVATION: 618	TDZE: 583	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ST LOUIS, MO	AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 30L, ORIG-B
	ST LOUIS LAMBERT INTL			17 AUGUST 2017
			SUP:	
			AMDT:	ORIG
			DATED:	01/10/2013



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 PLANVIEW NOTE ADJACENT TO PEJAA IF: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO JYAAR IF: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO TEEBE: (RNP 0.30).				
QUALITY 29 CHECKED				
CITY AND STATE ST LOUIS, MO	ELEVATION: 618	TDZE: 583	FACILITY IDENTIFIER: RNAV	SUP:
	AIRPORT NAME:			AMDT: ORIG
	ST LOUIS LAMBERT INTL			DATED: 01/10/2013
			PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 30L, ORIG-B 17 AUGUST 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: I-SMR 1.93 DME CLIMB TO 5000 THEN CLIMBING RIGHT TURN TO 8300 DIRECT GTF VORTAC THEN ON GTF VORTAC R-209 TO FRYMN/I-SMR 16.93 DME AND HOLD. ADDITIONAL FLIGHT DATA: FAS OBST: 3829 TREE 472635N/1112546W CHART VDP AT 3.15 DME* DISTANCE VDP TO THLD 1.22 NM. *LOC ONLY. CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME REQUIRED.							
GTF VORTAC		FRYMN/I-SMR 16.93 DME		209.00 / 13.36				8300									
HOXEK/GTF 22.27 DME (IAF)		FRYMN/I-SMR 16.93 DME (NOPT)		322.00 / 8.54 & 032.00 / 4.47 (I-SMR)				8300									
FRYMN/I-SMR 16.93 DME (IF/IAF)		DCEEE/I-SMR 9.04 DME		032.00 / 7.89 (I-SMR)				6000									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW FRYMN, LT, 032.00 INBOUND, 8300 FT. IN LIEU OF PT (IAF) 3. FAC: 032.00 FAF: DCEEE/I-SMR 9.04 DME DIST FAF TO MAP: _____ THLD: 7.12 4. MIN. ALT: FRYMN 8300, DCEEE 6000 5. DIST TO THLD FROM OM: _____ MM: - IM: 860 150 HAT: 1840 100 HAT: 885 GS ANT: 1099 6. MIN GS INCPT: 6000 GS ALT AT: DCEEE 6000 OM: - MM: - IM: 3780 7. GS ANGLE: 3.00 TCH: 53.6 8. MSA FROM: GTF VORTAC 050-250 8600, 250-050 6100										MAG VAR: 13E		EPOCH YEAR: 2010					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: STANDARD #				LOC: STANDARD @			
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
S-ILS 03	3880	1800	200	3880	1800	200	3880	1800	200	3880	1800	200					
S-LOC 03	4140	2400	460	4140	2400	460	4140	4500	460	4140	4500	460					
CIRCLING	4140	1	460	4140	1	460	4320	1 3/4	640	4420	2 1/4	740					
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 3: CAT A, B, C, D, RA 140, RVR 1400, HAT 150, DA 3830 MSL. CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 3: CAT A, B, C, D, RA 96, RVR 1200, HAT 100, DA 3780 MSL. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 3680 TDZE: 3680		FACILITY IDENTIFIER: I-SMR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP: ILS OR LOC/DME					
GREAT FALLS, MT		AIRPORT NAME:		GREAT FALLS INTL		ILS OR LOC RWY 3, AMDT 5C; ILS RWY 3 (SA CAT I), ILS RWY 3 (CAT II), ILS RWY 3 (CAT III)						RWY 3					
						17 AUGUST 2017						AMDT: 5B					
												DATED 07/24/2014					



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

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

NOTES, (CONT.):

CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 3: CAT III CAT A, B, C, D, RVR 600.

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

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

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

CHART NOTE: DME REQUIRED.

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

QUALITY
25
CHECKED

CITY AND STATE

GREAT FALLS, MT

ELEVATION: 3680**TDZE: 3680**

AIRPORT NAME:

GREAT FALLS INTL

FACILITY
IDENTIFIER:

I-SMR

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**ILS OR LOC RWY 3, AMDT 5C; ILS RWY 3 (SA CAT I), ILS
RWY 3 (CAT II), ILS RWY 3 (CAT III)**

17 AUGUST 2017

SUP: **ILS OR LOC/DME
RWY 3**AMDT: **5B**DATED: **07/24/2014**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																											
TERMINAL ROUTES										MISSED APPROACH																											
FROM		TO		COURSE AND DISTANCE				ALTITUDE																													
										ADDITIONAL FLIGHT DATA:																											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																																					
2. _____																																					
3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____																																					
4. MIN. ALT _____																																					
8. MSA FROM: _____										MAG VAR: _____ EPOCH YEAR: _____																											
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																				ALTERNATE: N A																	
CATEGORY =====>																																					
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS																		
NOTES:																																					
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017																																					
CITY AND STATE GREAT FALLS, MT				ELEVATION: 3680 TDZE: 3667 AIRPORT NAME: GREAT FALLS INTL				FACILITY IDENTIFIER: ITU				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 34, AMDT 16C, 04/03/2014						SUP AMDT 16B DATE 10/23/2008																			

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: RW17 CLIMB TO 9000 DIRECT NICKH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9000. ADDITIONAL FLIGHT DATA: HOLD S, RT, 347.02 INBOUND. FAS OBST: 3740 AAO 472928N/1112138W 3900 AAO 473518N/1112037W DISTANCE TO THLD FROM 250 HAT: 0.69 NM. CHART VDP AT 0.97 NM TO RW17* *LNAV ONLY. WAAS CHANNEL # 49240 REFERENCE PATH ID: W17A CHART CIRCLING ICON. LTP HAE: 1095.9 M						
GTF VORTAC		KNOWL (TF) (FO) (RNP 2.00)		353.49 / 14.15				6700								
JEBOB (IAF)		KNOWL (NOPT) (TF) (FB) (RNP 1.00)		104.56 / 14.92				6200								
RESLE (IAF)		KNOWL (NOPT) (TF) (FB) (RNP 1.00)		246.19 / 15.58				6200								
KNOWL (IF/IAF)		GISKE (TF) (FB) (RNP 1.00)		167.02 / 5.99				5400								
GISKE (FAF)		RW17 (MAP) (TF) (FO) (RNP 0.30)		167.02 / 5.37												
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N KNOWL, RT, 167.02 INBOUND, 6200 FT. IN LIEU OF PT (IAF) 3. FAC: 167.02 FAF: GISKE DIST FAF TO MAP: 5.37 THLD: 5.37 4. MIN. ALT: KNOWL 6200, GISKE 5400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 5400 GS ALT AT: GISKE 5400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 47.3 34:1 IS CLEAR 8. MSA FROM: RW17 8500																
										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	3910	7/8	250	3910	7/8	250	3910	7/8	250	3910	7/8	250				
LNAV/VNAV DA	3910	7/8	250	3910	7/8	250	3910	7/8	250	3910	7/8	250				
LNAV MDA	4000	1	340	4000	1	340	4000	1	340	4000	1	340				
CIRCLING	4120	1	440	4140	1	460	4320	1 3/4	640	4420	2 1/4	740				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C (-14F) OR ABOVE 52C (126F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GTF VORTAC AIRWAY RADIALS 277 CW 029.																
CITY AND STATE GREAT FALLS, MT		ELEVATION: 3680 TDZE: 3660 AIRPORT NAME: GREAT FALLS INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, ORIG 17 AUGUST 2017						SUP:				
												AMDT: NONE				
												DATED				

QUALITY
 25
 CHECKED

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW17 (MAP)	3910 MSL (CA)	167.02	
3910 MSL	NICKH (DF) (FO) (RNP 1.00)		9000

QUALITY
25
CHECKED

CITY AND STATE
GREAT FALLS, MT

ELEVATION: 3680 TDZE: 3660
AIRPORT NAME:
GREAT FALLS INTL

FACILITY
IDENTIFIER:
RNAV

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

SUP:
AMDT: NONE
DATED:

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGTF
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	472941.1980N
LTP/FTP LONGITUDE	1112222.1900W
LTP/FTP ELLIPSOIDAL HEIGHT	+10959
FPAP LATITUDE	472812.1470N
FPAP LONGITUDE	1112222.2335W
THRESHOLD CROSSING HEIGHT (TCH)	00047.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0984
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 F84E5814

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11101
FPAP ORTHOMETRIC HEIGHT	+11101

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3660 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, ORIG 17 AUGUST 2017	SUP:
				AMDT: NONE
				DATED:

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW35 CLIMB TO 6200 DIRECT KNOWL AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 167.02 INBOUND. CHART FAS OBST: 3818 CTRL TWR 472848N/1112135W DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.14 NM TO RW35* *LNAV ONLY. WAAS CHANNEL # 82240 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 1103.8 M							
GTF VORTAC		NICKH (TF) (FO) (RNP 2.00)		159.28 / 11.93				8000									
HOXEK (IAF)		NICKH (NOPT) (TF) (FB) (RNP 1.00)		038.04 / 13.63				8000									
NICKH (IF/IAF)		CEVRO (TF) (FB) (RNP 1.00)		347.02 / 7.01				5800									
CEVRO (FAF)		TEFFS/2.30 NM TO RW35 (TF) (FB) (RNP 0.30)		347.02 / 4.24													
TEFFS/2.30 NM TO RW35		RW35 (MAP) (TF) (FO) (RNP 0.30)		347.02 / 2.30													
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S NICKH, RT, 347.02 INBOUND, 8000 FT. IN LIEU OF PT (IAF) 3. FAC: 347.02 FAF: CEVRO DIST FAF TO MAP: 6.54 THLD: 6.54 4. MIN. ALT: NICKH 8000, CEVRO 5800, TEFFS/2.30 NM TO RW35 4440* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 5800 GS ALT AT: CEVRO 5800 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 47.8 34:1 IS NOT CLEAR 8. MSA FROM: RW35 8500														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	3918	3/4	250	3918	3/4	250	3918	3/4	250	3918	3/4	250					
LNAV/VNAV DA	4086	1 3/8	418	4086	1 3/8	418	4086	1 3/8	418	4086	1 3/8	418					
LNAV MDA	4080	3/4	412	4080	1	412	4080	1 1/8	412	4080	1 1/8	412					
CIRCLING	4120	1	440	4140	1	460	4320	1 3/4	640	4420	2 1/4	740					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C (-14F) OR ABOVE 52C (126F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GTF VORTAC AIRWAY RADIALS 091 CW 238. CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																	
CITY AND STATE		ELEVATION: 3680 TDZE: 3668				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
GREAT FALLS, MT		AIRPORT NAME:						RNAV (GPS) RWY 35, ORIG				AMDT: NONE					
		GREAT FALLS INTL						17 AUGUST 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
RW35 (MAP)	3918 MSL (CA)	347.02	
3918 MSL	KNOWL (DF) (FO) (RNP 1.00)		6200

QUALITY
25
CHECKED

CITY AND STATE
GREAT FALLS, MT

ELEVATION: 3680 TDZE: 3668
AIRPORT NAME:
GREAT FALLS INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 35, ORIG
17 AUGUST 2017

SUP:
AMDT: NONE
DATED:

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

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are 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	KGTF
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	472843.9655N
LTP/FTP LONGITUDE	1112222.2175W
LTP/FTP ELLIPSOIDAL HEIGHT	+11038
FPAP LATITUDE	473013.0170N
FPAP LONGITUDE	1112222.1740W
THRESHOLD CROSSING HEIGHT (TCH)	00047.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0912
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	F670F3BA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11180
FPAP ORTHOMETRIC HEIGHT	+11180

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3668 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 17 AUGUST 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.												
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION																
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW03 CLIMB TO 6200 DIRECT DEELM AND ON TRACK 031.62 TO PSHKN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 211.70 INBOUND. CHART FAS OBST: 3802 RADAR 472735N/1112307W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.22 NM TO RW03* *LNAV ONLY. WAAS CHANNEL # 70602 REFERENCE PATH ID: W03A CHART CIRCLING ICON. LTP HAE: 1107.5 M					
GTF VORTAC		FRYMN (TF) (FO) (RNP 2.00)			212.00 / 13.36				8100							
WOKEN (IAF)		FRYMN (NOPT) (TF) (FB) (RNP 1.00)			026.90 / 24.34				8100							
ROSOE (IAF)		FRYMN (NOPT) (TF) (FB) (RNP 1.00)			081.84 / 18.37				8100							
HOXEK (IAF)		FRYMN (NOPT) (TF) (FB) (RNP 1.00)			344.59 / 10.92				8100							
FRYMN (IF/IAF)		DCEEE (TF) (FB) (RNP 1.00)			031.81 / 7.89				6000							
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW FRYMN, LT, 031.81 INBOUND, 8100 FT. IN LIEU OF PT (IAF) 3. FAC: 031.91 FAF: DCEEE DIST FAF TO MAP: 7.12 THLD: 7.12 4. MIN. ALT: FRYMN 8100, DCEEE 6000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 6000 GS ALT AT: DCEEE 6000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 53.6 34:1 IS CLEAR 8. MSA FROM: RW03 8500																
										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	3880	2400	200	3880	2400	200	3880	2400	200	3880	2400	200				
LNAV/VNAV DA	3963	2400	283	3963	2400	283	3963	2400	283	3963	2400	283				
LNAV MDA	4140	2400	460	4140	2400	460	4140	4500	460	4140	4500	460				
CIRCLING	4140	1	460	4140	1	460	4320	1 3/4	640	4420	2 1/4	740				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13F) OR ABOVE 50C (123F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT GREAT FALLS VORTAC ON AIRWAY RADIALS 169 CW 277. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 3680 TDZE: 3680				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
GREAT FALLS, MT		AIRPORT NAME:						RNAV (GPS) Y RWY 3, AMDT 3B				AMDT: 3A				
		GREAT FALLS INTL						17 AUGUST 2017				DATED 07/24/2014				



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
DCEEE (FAF)	RW03 (MAP) (TF) (FO) (RNP 0.30)	031.91 / 7.12	
RW03 (MAP)	3880 MSL (CA)	031.91	
3880 MSL	DEELM (DF) (FB) (RNP 1.00)		
DEELM	PSHKN (TF) (FO) (RNP 1.00)	031.62 / 10.69	6200

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680	TDZE: 3680	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 3, AMDT 3B 17 AUGUST 2017	SUP:
	AIRPORT NAME:				AMDT: 3A
	GREAT FALLS INTL				DATED: 07/24/2014

**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	KGTF
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	472809.6350N
LTP/FTP LONGITUDE	1112301.7860W
LTP/FTP ELLIPSOIDAL HEIGHT	+11075
FPAP LATITUDE	472922.8900N
FPAP LONGITUDE	1112113.6600W
THRESHOLD CROSSING HEIGHT (TCH)	00053.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 3485EC4D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11217
FPAP ORTHOMETRIC HEIGHT	+11217

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3680 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 3, AMDT 3B 17 AUGUST 2017	SUP:
				AMDT: 3A
				DATED: 07/24/2014

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: RW21 CLIMB TO 8000 DIRECT DCEEE AND ON TRACK 263.14 TO TUCKB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 8000. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 061.21 INBOUND. CHART FAS OBST: 3739 POLE 472922N/1112137W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 0.83 NM TO RW21* *LNAV ONLY. WAAS CHANNEL # 90221 REFERENCE PATH ID: W21A CHART CIRCLING ICON. LTP HAE: 1101.2 M						
KAVMY		SOTOW (TF) (FO) (RNP 2.00)		348.54 / 15.87				6500								
TUCKB		SOTOW (TF) (FO) (RNP 2.00)		045.00 / 24.68				6200								
PSHKN (IAF)		SOTOW (NOPT) (TF) (FB) (RNP 1.00)		211.21 / 5.01				6200								
SOTOW (IF/IAF)		DEELM (TF) (FB) (RNP 1.00)		212.17 / 5.68				5300								
DEELM (FAF)		WAGAN/2.10 NM TO RW21 (TF) (FB) (RNP 0.30)		212.09 / 2.87												
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE SOTOW, LT, 212.17 INBOUND, 6200 FT. IN LIEU OF PT (IAF) 3. FAC: 212.09 FAF: DEELM DIST FAF TO MAP: 4.97 THLD: 4.97 4. MIN. ALT: SOTOW 6200, DEELM 5300, WAGAN/2.10 NM TO RW21 4380* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 5300 GS ALT AT: DEELM 5300 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 59.0 34:1 IS CLEAR 8. MSA FROM: RW21 8500																
										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	3869	4000	200	3869	4000	200	3869	4000	200	3869	4000	200				
LNAV/VNAV DA	3927	4500	258	3927	4500	258	3927	4500	258	3927	4500	258				
LNAV MDA	4000	5500	331	4000	5500	331	4000	5000	331	4000	5000	331				
CIRCLING	4120	1	440	4140	1	460	4320	1 3/4	640	4420	2 1/4	740				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-11F) OR ABOVE 49C (121F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																
(CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 3680 TDZE: 3669				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
GREAT FALLS, MT		AIRPORT NAME:						RNAV (GPS) Y RWY 21, ORIG-C				AMDT: ORIG-B				
		GREAT FALLS INTL						17 AUGUST 2017				DATED 01/08/2015				



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
WAGAN/2.10 NM TO RW21	RW21 (MAP) (TF) (FO) (RNP 0.30)	212.09 / 2.10	
RW21 (MAP)	3869 MSL (CA)	212.09	
3869 MSL	DCEEE (DF) (FB) (RNP 1.00)		
DCEEE	TUCKB (TF) (FO) (RNP 1.00)	263.14 / 7.23	8000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TUCKB ON V187 SOUTHWEST BOUND

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT KAVMY ON V187 EASTBOUND

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PSHKN ON V257 NORTHEAST BOUND

QUALITY
25
CHECKED

CITY AND STATE

GREAT FALLS, MT

ELEVATION: 3680

TDZE: 3669

AIRPORT NAME:

GREAT FALLS INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 21, ORIG-C

17 AUGUST 2017

SUP:

AMDT: ORIG-B

DATED: 01/08/2015

**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	KGTF
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	472922.8935N
LTP/FTP LONGITUDE	1112113.6635W
LTP/FTP ELLIPSOIDAL HEIGHT	+11012
FPAP LATITUDE	472809.6300N
FPAP LONGITUDE	1112301.7800W
THRESHOLD CROSSING HEIGHT (TCH)	00059.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	C18166E3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11154
FPAP ORTHOMETRIC HEIGHT	+11154

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3669 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 21, ORIG-C 17 AUGUST 2017	SUP:
				AMDT: ORIG-B
				DATED: 01/08/2015

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 6200 ON TRACK 031.96 TO DEELM AND ON TRACK 031.62 TO PSHKN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 211.70 INBOUND. DISTANCE TO THLD FROM 293 HAT: 0.75 NM. ROUTE TYPE: A, H #TCH 3733.6 MSL (DO NOT CHART) ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S											
PSHKN			HANTZ (TF) (FB) (RNP 2.00)			237.96 / 13.80			6700														
HANTZ (IAF)			KEPPR (TF) (FB) (RNP 1.00)			208.60 / 8.17			5400														
KEPPR (IF)			DVINT (RF) (FB) (RNP 0.90)			(2.80 NM RADIUS CCW (CFVDM))/1.89			5300														
KYELL (IAF)			DVINT (TF) (FB) (RNP 1.00)			169.93 / 8.50			5300														
DVINT (IF)			MUDLR (RF) (FB) (RNP 0.90)			(2.80 NM RADIUS CCW (CFVDM))/4.25			5200														
(SEE FORM 8260-10)																							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT TESTR 3. FAC: <u>031.96</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: TESTR 4700 5. DIST TO THLD FROM OM: <u>3.03</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>4700</u> GS ALT AT: TESTR 4700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>53.6</u> # <u>34:1</u> IS CLEAR 8. MSA FROM: RW03 8500																		MAG VAR: 13E EPOCH YEAR: 2020					
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD											
CATEGORY ==>		A			B			C			D			E									
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA							
AUTHORIZATION REQUIRED																							
RNP 0.10 DA	3973	2400	293	3973	2400	293	3973	2400	293	3973	2400	293											
RNP 0.30 DA	4079	4500	399	4079	4500	399	4079	4500	399	4079	4500	399											
NOTES: CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE AT JAYKE: (RNP 0.50). CHART PLANVIEW NOTE AT MSURY: (RNP 0.30). (CONTINUED ON PAGE 2)																							
CITY AND STATE GREAT FALLS, MT				ELEVATION: 3680 TDZE: 3680 AIRPORT NAME: GREAT FALLS INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 3, ORIG-C 17 AUGUST 2017				SUP:									
														AMDT: ORIG-B									
														DATED 07/24/2014									



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.):				
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
SHIMY (IAF)	NIMPH (TF) (FB) (RNP 1.00)	082.38 / 18.70	6300	
NIMPH (IF)	MUDLR (TF) (FB) (RNP 1.00)	082.73 / 7.00	5200	
MUDLR	TESTR (RF) (FB) (RNP 0.90)	(2.80 NM RADIUS CCW (CFVDM))/2.49	4700	
MSURY (IAF)	DCEEE (TF) (FB) (RNP 1.00)	027.07 / 9.53	5200	
DCEEE (IF)	TESTR (TF) (FB) (RNP 0.30)	031.91 / 4.08	4700	
JAYKE (IAF)	BELLT (TF) (FB) (RNP 1.00)	244.18 / 9.31	5700	
BELLT (IF)	AUERR (RF) (FB) (RNP 1.00)	(2.60 NM RADIUS CW (CFRKN))/2.63	5100	
AUERR	TESTR (RF) (FB) (RNP 0.50)	(2.60 NM RADIUS CW (CFRKN))/4.09	4700	
TESTR (FAF)	RW03 (MAP) (TF) (FO) (RNP 0.30)	031.96 / 3.03		
RW03 (MAP)	DEELM (TF) (FB) (RNP 1.00)	031.96 / 6.69		
DEELM	PSHKN (TF) (FO) (RNP 1.00)	031.62 / 10.69	6200	
NOTES, (CONT.):				
CHART PLANVIEW NOTE AT SHIMY, PSHKN, KYELL: (RNP 0.90)				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAYKE ON V120 EASTBOUND				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MSURY ON V257 SOUTHBOUND				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT KYELL ON V21 NORTHWEST BOUND				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SHIMY ON V120 WESTBOUND AND V365 NORTHBOUND				
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PSHKN ON V257 NORTHEAST BOUND				
CHART PLANVIEW NOTE ADJACENT TO PSHKN, JAYKE, SHIMY, KYELL IAF: RF REQUIRED				
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -22C (-8F) OR ABOVE 40C (105F)				
CHART NOTE: FOR INOPERATIVE ALS INCREASE RNP 0.10 DA VISIBILITY ALL CATS TO RVR 4500, INCREASE RNP 0.30 DA VISIBILITY ALL CATS TO RVR 6000				
CHART SPEED ICON IN PLANVIEW AT BELLT, DVINT, KEPPR, MUDLR: MAX 180 KIAS				
CITY AND STATE	ELEVATION: 3680 TDZE: 3680	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
GREAT FALLS, MT	AIRPORT NAME:	RNAV	RNAV (RNP) Z RWY 3, ORIG-C	AMDT: ORIG-B
	GREAT FALLS INTL		17 AUGUST 2017	DATED: 07/24/2014



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.	
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS				
QUALITY 4 CHECKED				
CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3680 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 3, ORIG-C 17 AUGUST 2017	SUP: AMDT: ORIG-B DATED: 07/24/2014

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 CLIMB TO 8000 ON TRACK 212.03 TO ZETNI, RIGHT TURN TO UPIGY, AND ON TRACK 271.08 TO TUCKB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 8000. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 061.21 INBOUND. DISTANCE TO THLD FROM 273 HAT: 0.67 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 1: S #TCH 3718.3 MSL (DO NOT CHART)											
TUCKB (IAF)			KEPPR (TF) (FB) (RNP 1.00)			032.08 / 8.44			5500														
DATSA (IAF)			KEPPR (TF) (FB) (RNP 1.00)			096.81 / 10.78			5500														
KEPPR			JANON (TF) (FB) (RNP 1.00)			033.28 / 8.08			5500														
BRADZ (IAF)			WOLLY (TF) (FB) (RNP 1.00)			127.18 / 39.61			5500														
JANON (IF)			DRFTR (RF) (FB) (RNP 1.00)			(2.70 NM RADIUS CW (CFFPD))/4.44			5400														
(SEE FORM 8260-10)																							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT KUDEY 3. FAC: <u>212.07</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: KUDEY 4700 5. DIST TO THLD FROM OM: <u>3.08</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>4700</u> GS ALT AT: KUDEY 4700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: #59.0 34:1 IS CLEAR 8. MSA FROM: RW21 8500																		MAG VAR: 13E EPOCH YEAR: 2020					
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD											
CATEGORY =====>		A			B			C			D			E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
AUTHORIZATION REQUIRED																							
RNP 0.10 DA	3942	4500	273	3942	4500	273	3942	4500	273	3942	4500	273											
RNP 0.30 DA	3992	5000	323	3992	5000	323	3992	5000	323	3992	5000	323											
NOTES: CHART NOTE: RF REQUIRED. CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -24C (-11F) OR ABOVE 49C (121F). (CONTINUED ON PAGE 2)																							
CITY AND STATE GREAT FALLS, MT				ELEVATION: 3680 TDZE: 3669 AIRPORT NAME: GREAT FALLS INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 21, ORIG-D 17 AUGUST 2017						SUP: AMDT: ORIG-C DATED 03/05/2015							

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	
WOLLY (IF)	DRFTR (TF) (FB) (RNP 1.00)	127.64 / 5.00	5400	
DRFTR	KUDEY (RF) (FB) (RNP 1.00)	(2.70 NM RADIUS CW (CFFPD))/3.97	4700	
PSHKN (IAF)	DRYFT (TF) (FB) (RNP 1.00)	211.56 / 7.57	5100	
DRYFT (IF)	KUDEY (TF) (FB) (RNP 1.00)	212.13 / 5.00	4700	
YOGOS (IAF)	ZILEP (TF) (FB) (RNP 1.00)	295.16 / 14.93	6100	
ZILEP (IF)	WEDAR (TF) (FB) (RNP 1.00)	294.95 / 5.00	5100	
URELE (IAF)	ROWER (TF) (FB) (RNP 1.00)	007.51 / 24.30	8000	
ROWER	PADDL (TF) (FB) (RNP 1.00)	007.66 / 9.00	5900	
PADDL (IF)	WEDAR (RF) (FB) (RNP 1.00)	(2.70 NM RADIUS CCW (CFFPF))/3.43	5100	
WEDAR	KUDEY (RF) (FB) (RNP 1.00)	(2.70 NM RADIUS CCW (CFFPF))/3.90	4700	
KUDEY (FAF)	RW21 (MAP) (TF) (FO) (RNP 0.30)	212.07 / 3.08		
RW21 (MAP)	ZETNI (TF) (FB) (RNP 1.00)	212.03 / 6.05		
ZETNI	UPIGY (RF) (FB) (RNP 1.00)	(7.00 NM RADIUS CW (CFFPG)) / 7.22		
UPIGY	TUCKB (TF) (FO) (RNP 1.00)	271.08 / 2.58	8000	
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT PADDL, WEDAR, DRFTR, JANON: MAX 180 KIAS. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS CHART NOTE: PROCEDURE NA FOR ARRIVALS AT BRADZ ON V21 NORTHWEST BOUND CHART NOTE: PROCEDURE NA FOR ARRIVALS AT DATSA ON V536 NORTHWEST BOUND				
CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3669	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 21, ORIG-D 17 AUGUST 2017
SUP:				
AMDT:				ORIG-C
DATED:				03/05/2015



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.	
CHART NOTE: PROCEDURE NA FOR ARRIVALS AT PSHKN ON V257 NORTHEAST BOUND CHART NOTE: PROCEDURE NA FOR ARRIVALS AT YOGOS ON V120 EASTBOUND CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TUCKB ON V187 WESTBOUND. CHART NOTE: PROCEDURE NA FOR ARRIVALS AT URELE ON V536 SOUTHBOUND				
QUALITY 25 CHECKED				
CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3669 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 21, ORIG-D 17 AUGUST 2017	SUP: AMDT: ORIG-C DATED: 03/05/2015

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

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

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
GREAT FALLS, MT	GREAT FALLS INTL	17 AUGUST 2017	1

TAKEOFF MINIMUMS:

RWY 3, 17, 21, 35: STANDARD

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 3, RWY LT 9 FT FROM DER, 55 FT LEFT OF CENTERLINE, 2 FT AGL/3660 FT MSL.

RWY LT 9 FT FROM DER, 54 FT RIGHT OF CENTERLINE, 2 FT AGL/3661 FT MSL.

NOTE: RWY 17, GRD 30 FT FROM DER, 410 FT LEFT OF CENTERLINE, 3670 FT MSL.

GRD 182 FT FROM DER, 410 FT LEFT OF CENTERLINE, 3673 FT MSL.

NOTE: RWY 21, RWY LT 10 FT FROM DER, 4 FT RIGHT OF CENTERLINE, 2 FT AGL/3681 FT MSL.

RWY LT 10 FT FROM DER, 5 FT LEFT OF CENTERLINE, 2 FT AGL/3681 FT MSL.

POLE 1555 FT FROM DER, 787 FT LEFT OF CENTERLINE, 36 FT AGL/3731 FT MSL.

NOTE: RWY 21, GRD 5 FT FROM DER, 208 FT RIGHT OF CENTERLINE, 3641 FT MSL.

GRD 7 FT FROM DER, 374 FT RIGHT OF CENTERLINE, 3642 FT MSL.

GRD 9 FT FROM DER, 193 FT RIGHT OF CENTERLINE, 3641 FT MSL.

CONTROLLING OBSTACLES:



**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>
GREAT FALLS, MT	GREAT FALLS INTL	17 AUGUST 2017	1

REMARKS:

<u>FLIGHT INSPECTED BY:</u>	<i>Digitally signed by</i> JACOB POWERS Jul 11, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
THOMAS E MOLOKIE		FICO	6/15/17
<u>DEVELOPED BY:</u>	<i>Digitally signed by</i> DEANNA M FIELDS May 14, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
DEANNA M. FIELDS		AJV-5432	4/13/2017
<u>APPROVED BY:</u>	<i>Digitally signed by</i> JACOB POWERS Jul 11, 2017	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
PATRICK MULQUEEN		AJV-5430	

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:
AIRPORT MANAGER, ZLC, MT AERO, GTF ATCT, GTF APP CON

CHANGES - REASONS:

1. RWY NUMBERS CHANGED FROM 16/34 TO 17/35 - UPDATED MAGVAR FROM 16E TO 13E.
2. RWY 7/25 NO LONGER EXIST - RWYS CLOSED.
3. UPDATED TAKEOFF OBSTACLE NOTES - NEW SURVEY DATA.

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: 3.97 NM AFTER TRIGG/GTF 7.34 DME/RADAR OR AT ZEKIK/GTF 3.37 DME FIX									
IMUPE/GTF 13.34 DME CW (IAF)			UMBIH/GTF 13.34 DME (NOPT)			13.34 DME ARC			5700		CLIMB TO 8000 DIRECT GTF VORTAC, CONTINUE CLIMB-IN-HOLD TO 8000.									
WULOL/GTF 13.34 DME CCW (IAF)			UMBIH/GTF 13.34 DME (NOPT)			13.34 DME ARC			5700											
UMBIH/GTF 13.34 DME (IF)			TRIGG/GTF 7.34 DME/RADAR			208.88 / 6.00 (GTF R-029)			5000											
										ADDITIONAL FLIGHT DATA: HOLD SW, RT, 028.88 INBOUND. FAS OBST: 3694 POLE 472917N/1112104W CHART: 4117 TOWER 473208N/1111706W CHART VDP AT 4.20 DME DISTANCE VDP TO THLD 0.83 NM. CHART GTF R-277 AT IMUPE. CHART GTF R-106 AT WULOL. CHART CIRCLING ICON. TRIGG TO RW21: 3.00/75. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.										
1. PT <u>L</u> SIDE OF COURSE <u>028.88</u> OUTBOUND <u>5700</u> FT WITHIN <u>10</u> MILES OF <u>TRIGG</u> (IAF)										MAG VAR: 16E EPOCH YEAR:1990										
2.																				
3. FAC <u>208.88</u> FAF <u>TRIGG/GTF 7.34 DME/RADAR</u> DIST FAF TO MAP <u>3.97</u> THLD <u>3.97</u>																				
4. MIN. ALT <u>TRIGG/GTF 7.34 DME/RADAR 5000</u>																				
8. MSA FROM: <u>GTF VORTAC 050-250 8600, 250-050 6100</u>																				
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-21	4000	5500	331	4000	5500	331	4000	5500	331	4000	5500	331								
CIRCLING	4120	1	440	4140	1	460	4320	1 3/4	640	4420	2 1/4	740								
NOTES: CHART NOTE: DME OR RADAR REQUIRED.																				
@CAT D 800- 2 1/4																				
QUALITY 25 CHECKED																				
CITY AND STATE GREAT FALLS, MT		ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL		TDZE: 3669		FACILITY IDENTIFIER: GTF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 21, AMDT 10 17 AUGUST 2017						SUP AMDT 9C DATE 01/08/2015						

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

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

QUALITY
25
CHECKED

CITY AND STATE

GREAT FALLS, MT

ELEVATION: 3680

TDZE: 3669

AIRPORT NAME:

GREAT FALLS INTL

FACILITY
IDENTIFIER:

GTF

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 21, AMDT 10

17 AUGUST 2017

SUP:

AMDT: 9C

DATED: 01/08/2015

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW02 (DO NOT EXCEED 185 KIAS UNTIL GOGGS) CLIMB TO 4200, THEN CLIMBING LEFT TURN TO 9000 DIRECT GOGGS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9000. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 3169 TREE 481636N/1141719W DISTANCE TO THLD FROM 324 HAT: 0.87 NM. CHART VDP AT 1.27 NM TO RW02* *LNAV ONLY. WAAS CHANNEL # 70799 REFERENCE PATH ID: W02A CHART CIRCLING ICON. LTP HAE: 886.7 M						
OLIBY (IAF)		GOGGS (NOPT) (TF) (FB) (RNP 1.00)			079.85 / 23.14			9000								
GOGGS (IF/IAF)		AVDIH (TF) (FB) (RNP 1.00)			019.76 / 7.20			7300								
AVDIH		JALPA (TF) (FB) (RNP 1.00)			019.68 / 5.08			5800								
JALPA (FAF)		KALGE/2.60 NM TO RW02 (TF) (FB) (RNP 0.30)			019.74 / 6.15											
KALGE/2.60 NM TO RW02		RW02 (MAP) (TF) (FO) (RNP 0.30)			019.74 / 2.60											
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S GOGGS, LT, 019.76 INBOUND, 9000 FT. IN LIEU OF PT (IF/IAF) 3. FAC: 019.74 FAF: JALPA DIST FAF TO MAP: 8.75 THLD: 8.75 4. MIN. ALT: GOGGS 9000, AVDIH 7300, JALPA 5800, KALGE/2.60 NM TO RW02 3840 * 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 5800 GS ALT AT: JALPA 5800 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.0 34:1 IS CLEAR 8. MSA FROM: RW02 11300																
										MAG VAR: 15E			EPOCH YEAR: 2010			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @						
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	3290	5/8	324	3290	5/8	324	3290	5/8	324	3290	5/8	324				
LNAV/VNAV DA	3468	1 1/4	502	3468	1 1/4	502	3468	1 1/4	502	3468	1 1/4	502				
LNAV MDA	3420	1/2	454	3420	1/2	454	3420	7/8	454	3420	7/8	454				
CIRCLING	3480	1	503	3580	1	603	3640	1 3/4	663	3760	2 1/2	783				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-11F) OR ABOVE 53C (128F). @ CAT D 800-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA.																
CITY AND STATE		ELEVATION: 2977 TDZE: 2966			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
KALISPELL, MT		AIRPORT NAME:			GLACIER PARK INTL		RNAV (GPS) Z RWY 2, AMDT 3					AMDT: 2				
							17 AUGUST 2017					DATED 07/02/2009				



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW02 (MAP)	4200 MSL (CA)	019.76	4200
4200 MSL	GOGGS (DF) (FO) (RNP 1.00)		9000

QUALITY
18
CHECKED

CITY AND STATE
KALISPELL, MT

ELEVATION: 2977 TDZE: 2966
AIRPORT NAME:
GLACIER PARK INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Z RWY 2, AMDT 3
17 AUGUST 2017

SUP:
AMDT: 2
DATED: 07/02/2009

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGPI
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	481755.6790N
LTP/FTP LONGITUDE	1141603.5535W
LTP/FTP ELLIPSOIDAL HEIGHT	+08867
FPAP LATITUDE	481908.7595N
FPAP LONGITUDE	1141447.3070W
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	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

D3637D9B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+09029
FPAP ORTHOMETRIC HEIGHT	+09029

QUALITY
18
CHECKED

CITY AND STATE

KALISPELL, MT

ELEVATION: 2977

TDZE: 2966

AIRPORT NAME:

GLACIER PARK INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 2, AMDT 3

17 AUGUST 2017

SUP:

AMDT: 2

DATED: 07/02/2009

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 7.20 NM AFTER IRIVE/I-UKF 8.34 DME/RADAR OR AT I-UKF 1.14 DME									
BZM VOR/DME				HAPRI/I-UKF 14.34 DME/RADAR				049.77 / 10.46				5000		CLIMB TO 1740 THEN CLIMBING RIGHT TURN TO 5000 HEADING 165 AND BZM VOR/DME R-050 DIRECT HAPRI/I-UKF 14.34 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.									
HAPRI/I-UKF 14.34 DME/RADAR (IF/IAF)				IRIVE/I-UKF 8.34 DME/RADAR				006.65 / 6.00 (I-UKF)				3600											
														ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1312 TREE 361210N/0810600W CHART VDP AT 2.12 DME* DISTANCE VDP TO THLD 0.98 NM. *LOC ONLY. CHART CIRCLING ICON									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																							
2. HOLD S HAPRI, RT, 006.65 INBOUND, 5000 FT. IN LIEU OF PT (IAF)																							
3. FAC: 006.65 FAF: IRIVE/I-UKF 8.34 DME/RADAR DIST FAF TO MAP: 7.20 THLD: 7.20																							
4. MIN. ALT: HAPRI 5000, IRIVE 3600, JATLO/I-UKF 3.84 DME/RADAR 2160*																							
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1034																							
6. MIN GS INCPT: 3600 GS ALT AT: IRIVE 3600 OM: - MM: - IM: -																							
7. GS ANGLE: 3.00 TCH: 59.4																							
8. MSA FROM: BZM VOR/DME 5800														MAG VAR: 8W			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 01	1476	1/2	200	1476	1/2	200	1476	1/2	200	1476	1/2	200											
S-LOC 01	1620	1/2	344	1620	1/2	344	1620	5/8	344	1620	5/8	344											
CIRCLING	1800	1	497	1880	1	577	1880	1 1/2	577	2240	3	937											
NOTES: CHART NOTE: DME OR RADAR REQUIRED. CHART NOTE: VDP NA WHEN USING HICKORY ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HICKORY ALTIMETER SETTING AND INCREASE S-ILS DA TO 1566 FEET AND ALL MDAS 100 FEET, AND INCREASE S-LOC CATS C/D VISIBILITY 1/4 SM AND (CONTINUED ON PAGE 2)																							
CITY AND STATE NORTH WILKESBORO, NC				ELEVATION: 1303 TDZE: 1276 AIRPORT NAME: WILKES COUNTY				FACILITY IDENTIFIER: I-UKF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Y OR LOC Y RWY 1, AMDT 1 17 AUGUST 2017					SUP: ILS OR LOC RWY 1 AMDT: ORIG-C DATED 09/17/2015								



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
ILS - STANDARD				
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29				
NOTES, (CONT.): CIRCLING CAT C VISIBILITY 1/2 SM. CHART NOTE: FOR INOPERATIVE ALS WHEN USING HICKORY ALTIMETER SETTING, INCREASE S-ILS ALL CATS VISIBILITY TO 1 SM. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BZM VOR/DME AIRWAY RADIALS 356 CW 071.				
QUALITY 10 CHECKED				
CITY AND STATE	ELEVATION: 1303	TDZE: 1276	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
NORTH WILKESBORO, NC	AIRPORT NAME:		I-UKF	ILS Y OR LOC Y RWY 1, AMDT 1
	WILKES COUNTY			17 AUGUST 2017
			SUP: ILS OR LOC RWY 1	
			AMDT: ORIG-C	
			DATED: 09/17/2015	

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES														MISSED APPROACH												
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 7.20 NM AFTER IRIVE/I-UKF 8.34 DME/RADAR OR AT I-UKF 1.14 DME												
HAPRI/I-UKF 14.34 DME/RADAR (IF/IAF)				IRIVE/I-UKF 8.34 DME/RADAR				006.65 / 6.00 (I-UKF)				3600		CLIMB TO 1740 THEN CLIMBING RIGHT TURN TO 5000 HEADING 165 AND BZM VOR/DME R-050 DIRECT HAPRI/I-UKF 14.34 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.												
ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1312 TREE 361210N/0810600W CHART VDP AT 2.12 DME* DISTANCE VDP TO THLD 0.98 NM. *LOC ONLY. CHART CIRCLING ICON.																										
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																										
2. HOLD S HAPRI, RT, 006.65 INBOUND, 5000 FT. IN LIEU OF PT (IAF)																										
3. FAC: 006.65 FAF: IRIVE/I-UKF 8.34 DME/RADAR DIST FAF TO MAP: 7.20 THLD: 7.20																										
4. MIN. ALT: HAPRI 5000, IRIVE 3600, JATLO/I-UKF 3.84 DME/RADAR 2160*																										
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1034																										
6. MIN GS INCPT: 3600 GS ALT AT: IRIVE 3600 OM: - MM: - IM: -																										
7. GS ANGLE: 3.00 TCH: 59.4																										
8. MSA FROM:																										
MAG VAR: 8W 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 01	1476	1/2	200	1476	1/2	200	1476	1/2	200	1476	1/2	200														
S-LOC 01	1620	1/2	344	1620	1/2	344	1620	5/8	344	1620	5/8	344														
CIRCLING	1800	1	497	1880	1	577	1880	1 1/2	577	2240	3	937														
NOTES: CHART NOTE: DME OR RADAR REQUIRED. CHART NOTE: VDP NA WHEN USING HICKORY ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HICKORY ALTIMETER SETTING AND INCREASE S-ILS DA TO 1566 FEET AND ALL MDAS 100 FEET, AND INCREASE S-LOC CATS C/D VISIBILITY 1/4 SM AND (CONTINUED ON PAGE 2)																										
CITY AND STATE NORTH WILKESBORO, NC				ELEVATION: 1303 TDZE: 1276 AIRPORT NAME: WILKES COUNTY				FACILITY IDENTIFIER: I-UKF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Z OR LOC Z RWY 1, ORIG 17 AUGUST 2017						SUP: AMDT: NONE DATED										

QUALITY
10
CHECKED

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

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

NOTES, (CONT.):

CIRCLING CAT C VISIBILITY 1/2 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING HICKORY ALTIMETER SETTING, INCREASE S-ILS ALL CATS
VISIBILITY TO 1 SM.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	277/30 CW 097/30 (NOPT)	HAPRI/I-UKF (IF/IAF) (FB)	5000
2.	097/30 CW 277/30	097/15 CW 277/15	7100
3.	097/15 CW 277/15	HAPRI/I-UKF (IF/IAF) (FB)	5000

QUALITY
10
CHECKED

CITY AND STATE

NORTH WILKESBORO, NC

ELEVATION: 1303

TDZE: 1276

AIRPORT NAME:

WILKES COUNTY

FACILITY
IDENTIFIER:

I-UKF

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS Z OR LOC Z RWY 1, ORIG
17 AUGUST 2017

SUP:

AMDT: **NONE**

DATED:

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES												MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LPV: DA LNAV/VNAV: DA LNAV: RW01 CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 5000 DIRECT HAPRI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1369 TREE 361244N/0810616W DISTANCE TO THLD FROM 200 HAT: 0.53 NM. CHART VDP AT 0.98 NM TO RW01* *LNAV ONLY. WAAS CHANNEL # 40440 REFERENCE PATH ID: W01A CHART CIRCLING ICON LTP HAE: 347 M									
HAPRI (IF/IAF)			IRIVE (TF) (FB) (RNP 1.00)			006.65 / 6.00			3600												
IRIVE (FAF)			JATLO/2.70 NM TO RW01 (TF) (FB) (RNP 0.30)			006.65 / 4.50															
JATLO/2.70 NM TO RW01			RW01 (MAP) (TF) (FO) (RNP 0.30)			006.65 / 2.70															
RW01 (MAP)			1800 MSL (CA)			006.65			1800												
1800 MSL			HAPRI (DF) (FO) (RNP 1.00)						5000												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S HAPRI, RT, 006.65 INBOUND, 5000 FT. IN LIEU OF PT (IAF) 3. FAC: 006.65 FAF: IRIVE DIST FAF TO MAP: 7.20 THLD: 7.20 4. MIN. ALT: HAPRI 5000, IRIVE 3600, JATLO/2.70 NM TO RW01 2160* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3600 GS ALT AT: IRIVE 3600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 59.4 34:1 IS CLEAR 8. MSA FROM: _____																		MAG VAR: 8W		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	1476	1/2	200	1476	1/2	200	1476	1/2	200	1476	1/2	200									
LNAV/VNAV DA	1579	5/8	303	1579	5/8	303	1579	5/8	303	1579	5/8	303									
LNAV MDA	1620	1/2	344	1620	1/2	344	1620	5/8	344	1620	5/8	344									
CIRCLING	1800	1	497	1880	1	577	1880	1 1/2	577	2240	3	937									
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 1000-3 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HICKORY ALTIMETER SETTING AND INCREASE LPV DA TO 1566 FEET AND LNAV/VNAV DA TO 1669 FEET AND LNAV/VNAV VISIBILITY ALL CATS 1/4 SM. INCREASE (CONTINUED ON PAGE 2)																					
CITY AND STATE				ELEVATION: 1303 TDZE: 1276				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: GPS RWY 1					
NORTH WILKESBORO, NC				AIRPORT NAME:								RNAV (GPS) RWY 1, AMDT 1				AMDT: ORIG-B					
				WILKES COUNTY								17 AUGUST 2017				DATED 12/02/1996					



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

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

NOTES, (CONT.):

ALL MDAS 100 FEET AND LNAV VISIBILITY CATS C/D 1/4 SM AND CIRCLING CAT C 1/2 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING HICKORY ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1SM.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING HICKORY ALTIMETER SETTING

TAA

	FROM	TO	ALT
1.	277/30 CW 097/30 (NOPT)	HAPRI (IF/IAF) (FB)	5000
2.	097/30 CW 277/30	097/15 CW 277/15	7100
3.	097/15 CW 277/15	HAPRI (IF/IAF) (FO)	5000

QUALITY
10
CHECKED

CITY AND STATE NORTH WILKESBORO, NC	ELEVATION: 1303 TDZE: 1276 AIRPORT NAME: WILKES COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 17 AUGUST 2017	SUP: GPS RWY 1
				AMDT: ORIG-B
				DATED: 12/02/1996

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	KUKF
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	361254.3215N
LTP/FTP LONGITUDE	0810554.0925W
LTP/FTP ELLIPSOIDAL HEIGHT	+03470
FPAP LATITUDE	361423.5225N
FPAP LONGITUDE	0810556.6875W
THRESHOLD CROSSING HEIGHT (TCH)	00059.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0864
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
<u>CRC REMAINDER</u>	E21321BF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+03801
FPAP ORTHOMETRIC HEIGHT	+03801

QUALITY
10
CHECKED

CITY AND STATE NORTH WILKESBORO, NC	ELEVATION: 1303 TDZE: 1276 AIRPORT NAME: WILKES COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1 17 AUGUST 2017	SUP: GPS RWY 1
				AMDT: ORIG-B
				DATED: 12/02/1996

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: RW19 LNAV: RW19													
MEGXE				OPODE (TF) (FB) (RNP 2.00)			260.98 / 7.65				5300		CLIMB TO 5000 DIRECT HAPRI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.													
OPODE (IAF)				NEPVE (TF) (FB) (RNP 1.00)			253.06 / 5.88				5100															
NEPVE (IF)				POUFS (TF) (FB) (RNP 1.00)			213.68 / 1.34				4700															
POUFS				MITPE (TF) (FB) (RNP 1.00)			213.67 / 1.34				4300															
MITPE				LAPVE (TF) (FB) (RNP 1.00)			213.67 / 3.01				3400															
(SEE FORM 8260-10)													ADDITIONAL FLIGHT DATA: HOLD S, RT, 006.65 INBOUND. CHART FAS OBST: 1460 TREE 361450N/0810554W CHART FAS OBST: 1498 TK 361451N/0810641W 2155 AAO 361922N/0810720W 2120 AAO 361935N/0810709W CHART VDP AT 1.16 NM TO RW19. WAAS CHANNEL # 99740 REFERENCE PATH ID: W19A CHART CIRCLING ICON. LAPVE TO RW19: 3.45/46.5 LTP HAE: 364.1 M													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 8W EPOCH YEAR: 2020												
2. PROFILE STARTS AT NEPVE																										
3. FAC: 186.65 FAF: LAPVE DIST FAF TO MAP: 5.60 THLD: 5.60																										
4. MIN. ALT: NEPVE 5100, POUFS 4700, MITPE 4300, LAPVE 3400, KHOUM/2.10 NM TO RW19 2100																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR																										
8. MSA FROM: RW19 6800																										
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	1720	1	417	1720	1	417	1720	1 1/8	417	1720	1 1/8	417														
LNAV MDA	1760	1	457	1760	1	457	1760	1 3/8	457	1760	1 3/8	457														
CIRCLING	1800	1	497	1880	1	577	1880	1 1/2	577	2240	3	937														
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: VDP NA WHEN USING HICKORY ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HICKORY ALTIMETER SETTING AND INCREASE ALL (CONTINUED ON PAGE 2)																										
CITY AND STATE NORTH WILKESBORO, NC				ELEVATION: 1303 TDZE: 1303 AIRPORT NAME: WILKES COUNTY				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG 17 AUGUST 2017					SUP: AMDT: NONE DATED											

QUALITY
10
CHECKED

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
LAPVE (FAF)	KHOUM/2.10 NM TO RW19 (TF) (FB) (RNP 0.30)	186.65 / 3.50	
KHOUM/2.10 NM TO RW19	RW19 (MAP) (TF) (FO) (RNP 0.30)	186.65 / 2.10	
RW19 (MAP)	1703 MSL (CA)	186.65	
1703 MSL	HAPRI (DF) (FO) (RNP 1.00)		5000

NOTES, (CONT.):

MDAS 100 FEET AND LP AND LNAV VISIBILITY CATS C/D 1/4 SM AND INCREASE CIRCLING VISIBILITY CAT C 1/2 SM.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT MEGXE ON V37 NORTHBOUND.

CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CITY AND STATE

NORTH WILKESBORO, NC

ELEVATION: 1303

TDZE: 1303

AIRPORT NAME:

WILKES COUNTY

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 19, ORIG

17 AUGUST 2017

SUP:

AMDT:

NONE

DATED:

 QUALITY
10
CHECKED

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KUKF
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	361355.6130N
LTP/FTP LONGITUDE	0810555.8725W
LTP/FTP ELLIPSOIDAL HEIGHT	+03641
FPAP LATITUDE	361226.4125N
FPAP LONGITUDE	0810553.2785W
THRESHOLD CROSSING HEIGHT (TCH)	00046.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.45
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0864
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

777A40E1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+03972
FPAP ORTHOMETRIC HEIGHT	+03972

CITY AND STATE

NORTH WILKESBORO, NC

ELEVATION: 1303

TDZE: 1303

AIRPORT NAME:

WILKES COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 19, ORIG

17 AUGUST 2017

SUP:

AMDT:

DATED:

 QUALITY
10
CHECKED

NONE

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

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

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
NORTH WILKESBORO, NC	WILKES COUNTY	17 AUGUST 2017	1

TAKEOFF MINIMUMS:

RWY 1, STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 5000 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS.
RWY 19, STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 3200 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWY 19 - CLIMB HEADING 186.64 TO 3200 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS WILKES COUNTY AIRPORT AT OR ABOVE 3200 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 01, TREES, TERRAIN BEGINNING 2 FT FROM DER, 309 FT RIGHT OF CENTERLINE, UP TO 1344 FT MSL.
TREE 44 FT FROM DER, 447 FT LEFT OF CENTERLINE, 1351 FT MSL.
TREES, TERRAIN BEGINNING 65 FT FROM DER, 89 FT LEFT OF CENTERLINE, UP TO 1352 FT MSL.
TREES BEGINNING 171 FT FROM DER, 495 FT LEFT OF CENTERLINE, UP TO 1364 FT MSL.
TREES, TERRAIN BEGINNING 294 FT FROM DER, 81 FT LEFT OF CENTERLINE, UP TO 1367 FT MSL.
TREES AND VERTICAL STRUCTURE BEGINNING 324 FT FROM DER, 263 FT RIGHT OF CENTERLINE, UP TO 1358 FT MSL.
TREES, TERRAIN BEGINNING 425 FT FROM DER, 163 FT RIGHT OF CENTERLINE, UP TO 1367 FT MSL.
TREE 484 FT FROM DER, 491 FT RIGHT OF CENTERLINE, 1378 FT MSL.
TREES, TERRAIN BEGINNING 520 FT FROM DER, 262 FT RIGHT OF CENTERLINE, UP TO 1379 FT MSL.
TREE AND POLE BEGINNING 587 FT FROM DER, 188 FT LEFT OF CENTERLINE, UP TO 1370 FT MSL.
TREES BEGINNING 760 FT FROM DER, 263 FT RIGHT OF CENTERLINE, UP TO 1381 FT MSL.
TREES BEGINNING 1014 FT FROM DER, 146 FT RIGHT OF CENTERLINE, UP TO 1389 FT MSL.
TREE 1417 FT FROM DER, 537 FT LEFT OF CENTERLINE, 1374 FT MSL.
TREE 1452 FT FROM DER, 641 FT LEFT OF CENTERLINE, 1384 FT MSL.
TREES BEGINNING 1528 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 1403 FT MSL.
TREE AND POLE BEGINNING 2154 FT FROM DER, 423 FT LEFT OF CENTERLINE, UP TO 1421 FT MSL.
TREE, POLE BEGINNING 2369 FT FROM DER, 357 FT LEFT OF CENTERLINE, UP TO 1423 FT MSL.
TREES BEGINNING 2784 FT FROM DER, 497 FT RIGHT OF CENTERLINE, UP TO 1393 FT MSL.
TREES BEGINNING 3436 FT FROM DER, 726 FT RIGHT OF CENTERLINE, UP TO 1406 FT MSL.
TREES BEGINNING 3646 FT FROM DER, 1115 FT RIGHT OF CENTERLINE, UP TO 1413 FT MSL.
TREE 4982 FT FROM DER, 1807 FT LEFT OF CENTERLINE, 1428 FT MSL.
TREES BEGINNING 5360 FT FROM DER, 187 FT RIGHT OF CENTERLINE, UP TO 1443 FT MSL.
TREE 5510 FT FROM DER, 363 FT RIGHT OF CENTERLINE, 1448 FT MSL.

TREES BEGINNING 5544 FT FROM DER, 290 FT RIGHT OF CENTERLINE, UP TO 1460 FT MSL.

NOTE: RWY 19, TREE 21 FT FROM DER, 484 FT RIGHT OF CENTERLINE, 100 FT AGL/1328 FT MSL.
TREES BEGINNING 26 FT FROM DER, ON CENTERLINE, UP TO 100 FT AGL/1347 FT MSL.
TREES BEGINNING 32 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1357 FT MSL.
NOTE: RWY 19, TREE 21 FT FROM DER, 484 FT RIGHT OF CENTERLINE, 100 FT AGL/1328 FT MSL.
TREES BEGINNING 26 FT FROM DER, ON CENTERLINE, UP TO 100 FT AGL/1347 FT MSL.
TREES BEGINNING 32 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1357 FT MSL.
NOTE: RWY 19, TREE 21 FT FROM DER, 484 FT RIGHT OF CENTERLINE, 100 FT AGL/1328 FT MSL.
TREES BEGINNING 26 FT FROM DER, ON CENTERLINE, UP TO 100 FT AGL/1347 FT MSL.
TREES BEGINNING 32 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1357 FT MSL.

CONTROLLING OBSTACLES:

RWY 1: 3931 FT MSL AAO 362236.00N/0811333.00W (CLIMB GRADIENT, CLIMB -TO - ALTITUDE).

RWY 19: 2667 FT MSL TOWER 360434.00N/0810742.00W (CLIMB GRADIENT AND CLIMB - TO - ALTITUDE)

(VCOA): 1851 FT MSL AAO 361651.00N/0810754.00W (VCA). 3931 FT MSL AAO 362236.00N/0811333.00W (DIVERSE).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:

RWY 19 - 3931 FT MSL AAO 362236.00N/0811333.00W

REMARKS:

RWY 1 CLIMB GRADIENT (330 FT PER NM) ROUNDED UP FOR PUBLICATION .
RWY 19 CLIMB GRADIENT (230 FT PER NM) ROUNDED UP FOR PUBLICATION .



**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>
NORTH WILKESBORO, NC	WILKES COUNTY	17 AUGUST 2017	1

FLIGHT INSPECTED BY:

BLAKE SEARLES *Digitally signed by*
DONALD H LANIER
Apr 19, 2017

OFFICE SYMBOL:

FICO

DATE:

04/12/2017

DEVELOPED BY:

LIAM DONAHUE

Digitally signed by
LIAM DONAHUE
Mar 22, 2017

OFFICE SYMBOL:

AJV-5431

DATE:

02/21/2017

APPROVED BY:

PATRICK MULQUEEN *Digitally signed by*
DONALD H LANIER
Apr 19, 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:

CHANGES - REASONS:

1. CHANGED TAKEOFF MINIMUMS FOR RWY 1 FROM: 400-1 OR STD. WITH A MINIMUM CLIMB OF 300' PER NM TO 1700. TO: STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 5000 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS. - NUMEROUS DIVERSE AREA A PENETRATIONS.
2. ADDED RWY 19 TAKEOFF MINIMUMS OF STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 3200 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS.- DIVERSE AREA A AND B PENETRATIONS.
3. ADDED DEPARTURE PROCEDURE FOR RWY 19. - DIVERSE AREA A AND B PENETRATIONS.
4. ADDED VCOA FOR RWYS 1, 19. - FAAO 8260.46F TABLE 2-1-1.
5. ADDED TAKEOFF OBSTACLE NOTES FOR BOTH RUNWAYS. - FAAO 8260.46F, APPENDIX D, 7.



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: 5.29 NM AFTER FITZY LOM/INT												
GDM VOR/DME (IAF)				JAAZZ INT/GDM 25.45 DME				066.28 / 25.45				3100		CLIMB TO 3000 ON HEADING 057.42 AND CON VOR/DME R-154.25 TO KHRIS INT/CON 21.30 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ALTERNATE MA (DO NOT CHART): CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 3000 DIRECT MHT VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 154.25 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE MHT VOR/DME, RT, 246.00 INBOUND. FAS OBST: 579 AAO 425239N/0713029W CHART IN PLANVIEW: MHT VOR/DME. CHART CIRCLING ICON. CHART MANDATORY 5000 AT TEETO.												
TEETO (IAF)				JAAZZ (TF) (FB) (RNP 1.00)				111.22 / 4.67				3100														
JAAZZ INT/GDM 25.45 DME (IF)				FITZY LOM/INT				057.42 / 4.83 (I-MJE)				2000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 15W EPOCH YEAR: 2020												
2. PROFILE STARTS AT JAAZZ																										
3. FAC: 057.42 FAF: FITZY LOM/INT DIST FAF TO MAP: 5.29 THLD: 5.29																										
4. MIN. ALT: JAAZZ 3100, FITZY LOM 2000																										
5. DIST TO THLD FROM OM: 5.29 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 943																										
6. MIN GS INCPT: 2000 GS ALT AT: - OM: 1978 MM: - IM: -																										
7. GS ANGLE: 3.00 TCH: 50.1																										
8. MSA FROM: MJ LOM 026-206 2800, 206-026 4400																										
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: #			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	474	4000	250	474	4000	250	474	4000	250	474	4000	250														
S-LOC 06	840	5500	616	840	5500	616	840	1 3/4	616	840	1 3/4	616														
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834														
NOTES: NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHUA ALTIMETER SETTING: INCREASE S-ILS 6 DA TO 506 AND ALL CATS VISIBILITY TO RVR 4500; INCREASE ALL MDA 40 FEET AND S-LOC 6 CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE. NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																										
CITY AND STATE MANCHESTER, NH				ELEVATION: 266 TDZE: 224 AIRPORT NAME: MANCHESTER				FACILITY IDENTIFIER: I-MJE		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 6, AMDT 2B 17 AUGUST 2017						SUP: AMDT: 2A 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.

NOTES, (CONT.):

CHART PLANVIEW NOTE ADJACENT TEETO (IAF): GPS REQUIRED.

CHART PLANVIEW NOTE: MAX 210 KIAS AT TEETO.



CITY AND STATE MANCHESTER, NH	ELEVATION: 266 AIRPORT NAME: MANCHESTER	TDZE: 224	FACILITY IDENTIFIER: I-MJE	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 6, AMDT 2B 17 AUGUST 2017	SUP:
					AMDT: 2A
					DATED: 03/02/2017

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: 4.02 NM AFTER MNTIN INT/I-MHT 5.64 DME OR AT I-MHT 1.63 DME CLIMB TO 3500 ON HEADING 351.53 AND MHT VOR/DME R-340.00 TO SCOOP INT/MHT 12.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500. ALTERNATE MA (DO NOT CHART): CLIMB TO 3500 ON HEADING 351.53 AND ON CON VOR/DME R-175 TO FERNS INT/CON 12.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500. ADDITIONAL FLIGHT DATA: HOLD N, LT, 160.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N FERNS INT/CON 12.00 DME, LT, 175.30 INBOUND. CHART FAS OBST: 463 TREE 425410N/0712447W CHART VDP AT 2.84 DME* DISTANCE VDP TO THLD 1.12 NM. *LOC ONLY. CHART IN PLANVIEW: FERNS INT/CON 12.00 DME. CHART MANDATORY 5000 AT SHOWZ. CHART CIRCLING ICON.					
LWM VOR/DME (IAF)	PELAN INT/I-MHT 12.42 DME			290.08 / 10.43			2500								
PELAN INT/I-MHT 12.42 DME	YOUULL INT/I-MHT 8.66 DME			351.53 / 3.76 (I-MHT)			2500								
SHOWZ (IAF)	IHOBBS (TF) (FB) (RNP 1.00)			152.98 / 6.24			3000								
IHOBBS	ELEEE (TF) (FB) (RNP 1.00)			086.67 / 5.27			3000								
ELEEE	YOUULL (TF) (FB) (RNP 1.00)			022.17 / 3.47			2500			175.30 INBOUND. CHART VDP AT 2.84 DME* DISTANCE VDP TO THLD 1.12 NM. *LOC ONLY. CHART IN PLANVIEW: FERNS INT/CON 12.00 DME. CHART MANDATORY 5000 AT SHOWZ. CHART CIRCLING ICON.					
YOUULL INT/I-MHT 8.66 DME (IF)	MNTIN INT/I-MHT 5.64 DME			351.53 / 3.01 (I-MHT)			1600								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT YOUULL 3. FAC: <u>351.53</u> FAF: <u>MNTIN INT/I-MHT 5.64 DME</u> DIST FAF TO MAP: <u>4.02</u> THLD: <u>4.02</u> 4. MIN. ALT: <u>YOUULL 2500, MNTIN 1600, XOHWI/I-MHT 3.53 DME 880*</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: <u>0.45</u> IM: <u>861</u> 150 HAT: <u>1815</u> 100 HAT: <u>861</u> GS ANT: <u>1222</u> 6. MIN GS INCPT: <u>1600</u> GS ALT AT: <u>MNTIN 1600</u> OM: _____ - _____ MM: <u>509</u> IM: <u>410</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9</u> 8. MSA FROM: <u>MHT VOR/DME 046-136 2600, 136-226 2000, 226-046 3500</u>															
										MAG VAR: 15W EPOCH YEAR: 2020					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD @				
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 35	465	1800	200	465	1800	200	465	1800	200	465	1800	200			
S-LOC 35	880	4000	615	880	4000	615	880	1 3/8	615	880	1 3/8	615			
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834			
XOHWI FIX MINIMUMS (DME REQUIRED)															
S-LOC 35	720	4000	455	720	4000	455	720	4500	455	720	4500	455			
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834			
NOTES: <u>SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED;</u> S-ILS 35: CAT A, B, C, D, RA 138, RVR 1400, HAT 150, DA 415 MSL. <u>CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED;</u> S-ILS 35: CAT A, B, C, D, RA 101, RVR 1200, HAT 100, DA 365 MSL. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 266 TDZE: 265		FACILITY IDENTIFIER: I-MHT		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:			
MANCHESTER, NH		AIRPORT NAME: MANCHESTER				ILS OR LOC RWY 35, AMDT 2B; ILS RWY 35 (SA CAT I), ILS RWY 35 (CAT II), ILS RWY 35 (CAT III)						AMDT: 2A			
						17 AUGUST 2017						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.

NOTES, (CONT.):

CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35: CAT III CAT A, B, C, D, RVR 700.

CHART SPEED ICON IN PLANVIEW AT LWM VOR/DME : MAX 210 KIAS.

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.

***LOC ONLY**

***920 WHEN USING NASHUA ALTIMETER SETTING.**

CHART NOTE: FOR INOPERATIVE ALSF, INCREASE S-LOC 35 AND XOHWI FIX MINIMUMS S-LOC 35 VISIBILITY TO RVR 5000.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHUA ALTIMETER SETTING: INCREASE S-ILS 35 DA TO 497 AND ALL CAT VISIBILITIES 1/4 MILE; INCREASE ALL MDA 40 FEET AND INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE; INCREASE XOHWI FIX MINIMUMS S-LOC 35 CAT C/D VISIBILITY 1/8 MILE AND XOHWI FIX MINIMUMS CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: WHEN USING NASHUA ALTIMETER SETTING: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 35; FOR INOPERATIVE ALSF, INCREASE INCREASE S-LOC 35 AND XOHWI FIX MINIMUMS S-LOC 35 VISIBILITY TO RVR 5000.

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

CHART PLANVIEW NOTE ADJACENT SHOWZ (IAF): GPS REQUIRED.

CHART PLANVIEW NOTE ADJACENT LWM VOR/DME (IAF): RADAR REQUIRED FOR PROCEDURE ENTRY AT LWM VOR/DME.

CHART PLANVIEW NOTE AT LWM VOR/DME: MAX 210 KIAS.

CHART PLANVIEW NOTE AT SHOWZ: MAX 210 KIAS.

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

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

SA CAT II AND CAT III NOTE: PROCEDURE NA WHEN CONTROL TOWER CLOSED.

QUALITY
25
CHECKED

CITY AND STATE MANCHESTER, NH	ELEVATION: 266 AIRPORT NAME: MANCHESTER	TDZE: 265 I-MHT	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 35, AMDT 2B; ILS RWY 35 (SA CAT I), ILS RWY 35 (CAT II), ILS RWY 35 (CAT III) 17 AUGUST 2017	SUP:
				AMDT: 2A
				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.					
TERMINAL ROUTES													MISSED APPROACH								
FROM			TO			COURSE AND DISTANCE			ALTITUDE			ILS: DA LOC: I-MNA 0.31 DME									
PURBL (IAF)			LYLAC (TF) (FB) (RNP 1.00)			022.58 / 6.08			3000			CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT MHT VOR/DME AND HOLD.									
LYLAC			BLSSM (TF) (FB) (RNP 1.00)			090.13 / 4.22			3000												
BLSSM			BLUUM (TF) (FB) (RNP 1.00)			138.37 / 3.27			2500			ALTERNATE MA (DO NOT CHART): CLIMB TO 900 THEN CLIMBING LEFT TURN TO 4000 DIRECT CON VOR/DME AND HOLD.									
CON VOR/DME (IAF)			BLUUM/I-MNA 6.89 DME			177.80 / 10.61			2500			ADDITIONAL FLIGHT DATA: HOLD SE, LT, 337.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW CON VOR/DME, RT, 149.75 INBOUND. CHART FAS OBST: 397 TREE 425722N/0712710W CHART IN PLANVIEW: CON VOR/DME. CHART IN PROFILE: I-MNA DME ANTENNA. CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED. CHART MANDATORY 5000 AT PURBL.									
BLUUM/I-MNA 6.89 DME (IF)			ORDIE/I-MNA 3.75 DME			171.52 / 3.14 (I-MNA)			1600												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)													MAG VAR: 15W EPOCH YEAR: 2020								
2. PROFILE STARTS AT BLUUM																					
3. FAC: 171.52 FAF: ORDIE/I-MNA 3.75 DME DIST FAF TO MAP: _____ THLD: 4.05																					
4. MIN. ALT: BLUUM 2500, ORDIE 1600, SITLE/I-MNA 1.30 DME 800*																					
5. DIST TO THLD FROM OM: _____ - MM: _____ - IM: _____ 150 HAT: _____ - 100 HAT: _____ - GS ANT: 825																					
6. MIN GS INCPT: 1600 GS ALT AT: ORDIE 1600 OM: _____ - MM: _____ - IM: _____																					
7. GS ANGLE: 3.10 TCH: 49.1																					
8. MSA FROM: MHT VOR/DME 046-136 2600, 136-226 2000, 226-046 3500																					
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: #			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 17	429	1800	200	429	1800	200	429	1800	200	429	1800	200									
S-LOC 17	660	2400	431	660	2400	431	660	4500	431	660	4500	431									
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834									
NOTES: CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. *LOC ONLY *840 WHEN USING NASHUA ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHUA ALTIMETER SETTING: INCREASE S-ILS (CONTINUED ON PAGE 2)													# @ NA WHEN CONTROL TOWER CLOSED. # @ NA WHEN LOCAL WEATHER NOT AVAILABLE. # CAT A, B 700-2, CAT C 800-2, CAT D 900-2 3/4 @ CAT D 900-2 3/4						QUALITY 25 CHECKED		
CITY AND STATE MANCHESTER, NH			ELEVATION: 266 TDZE: 229 AIRPORT NAME: MANCHESTER			FACILITY IDENTIFIER: I-MNA		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 17, AMDT 2C 17 AUGUST 2017					SUP: AMDT: 2B 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.

NOTES, (CONT.):

17 DA TO 461; INCREASE ALL MDA 40 FEET AND S-LOC 17 CAT C/D VISIBILITY 1/8 SM AND CIRCLING CAT C VISIBILITY 1/4 SM.

CHART PLANVIEW NOTE ADJACENT PURBL (IAF): GPS REQUIRED.

CHART PLANVIEW NOTE AT PURBL: MAX 210 KIAS.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING NASHUA ALTIMETER SETTING, INCREASE S-LOC 17 CAT C/D VISIBILITY TO 1 3/8 SM.



CITY AND STATE

MANCHESTER, NH

ELEVATION: 266

TDZE: 229

AIRPORT NAME:

MANCHESTER

FACILITY
IDENTIFIER:

I-MNA

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC/DME RWY 17, AMDT 2C

17 AUGUST 2017

SUP:

AMDT: 2B

DATED: 03/02/2017

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		LPV: DA LNAV/VNAV: DA LNAV: RW06 CLIMB TO 3000 DIRECT CUXOV AND ON TRACK 139.45 TO KHRIS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 154.25 INBOUND. CHART FAS OBST: 547 TOWER 425427N/0712741W DISTANCE TO THLD FROM 269 HAT: 0.70 NM. CHART VDP AT 1.66 NM TO RW06* *LNAV ONLY. WAAS CHANNEL # 58214 REFERENCE PATH ID: W06A LTP HAE: 40 M						
PSM VOR/DME		HAKAM (TF) (FB) (RNP 2.00)		251.05 / 37.82				3000								
CON VOR/DME		FOSAN (TF) (FB) (RNP 2.00)		209.58 / 23.39				3600								
HAKAM (IAF)		HEDGI (TF) (FB) (RNP 1.00)		327.35 / 5.00				3000								
COOSA (IAF)		HEDGI (TF) (FB) (RNP 1.00)		057.25 / 4.00				3000								
FOSAN (IAF)		HEDGI (TF) (FB) (RNP 1.00)		147.23 / 5.00				3000								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HEDGI 3. FAC: <u>057.35</u> FAF: <u>CUTSA</u> DIST FAF TO MAP: <u>5.35</u> THLD: <u>5.35</u> 4. MIN. ALT: <u>HEDGI 3000, CUTSA 2000</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2000</u> GS ALT AT: <u>CUTSA 2000</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>48.4</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW06 4100</u>										MAG VAR: 15W 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	493	5000	269	493	5000	269	493	5000	269	493	5000	269				
LNAV/VNAV DA	871	2 1/4	647	871	2 1/4	647	871	2 1/4	647	871	2 1/4	647				
LNAV MDA	800	5000	576	800	5000	576	800	1 1/2	576	800	1 3/4	576				
CIRCLING	880	1	614	880	1	614	880	1 3/4	614	900	2	634				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: RWY 6 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 CON VOR/DME ON AIRWAY RADIALS 172 CW 246, AND (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 266 TDZE: 224				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
MANCHESTER, NH		AIRPORT NAME: MANCHESTER						RNAV (GPS) RWY 6, AMDT 2B 17 AUGUST 2017				AMDT: 2A				
												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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HEDGI (IF)	CUTSA (TF) (FB) (RNP 1.00)	057.29 / 6.25	2000
CUTSA (FAF)	RW06 (MAP) (TF) (FO) (RNP 0.30)	057.35 / 5.35	
RW06 (MAP)	493 MSL (CA)	057.35	
493 MSL	CUXOV (DF) (FB) (RNP 1.00)		
CUXOV	KHRIS (TF) (FO) (RNP 1.00)	139.45 / 5.31	3000

NOTES, (CONT.):

ARRIVALS AT PSM VOR/DME ON V3 NORTHBOUND.

CHART PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT COOSA.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BOIRE FIELD ALTIMETER SETTING AND INCREASE ALL DA 32 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV VISIBILITY 1/4 MILE ALL CATS, LNAV CAT C AND D VISIBILITIES 1/4 MILE, AND CIRCLING CAT D VISIBILITY 1/4 MILE.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING BOIRE FIELD ALTIMETER SETTING.

QUALITY
25
CHECKED

CITY AND STATE

MANCHESTER, NH

ELEVATION: 266

TDZE: 224

AIRPORT NAME:

MANCHESTER

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 6, AMDT 2B

17 AUGUST 2017

SUP:

AMDT: 2A

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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMHT
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	425545.0715N
LTP/FTP LONGITUDE	0712652.6085W
LTP/FTP ELLIPSOIDAL HEIGHT	+00400
FPAP LATITUDE	425650.8645N
FPAP LONGITUDE	0712530.7860W
THRESHOLD CROSSING HEIGHT (TCH)	00048.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0552
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

C02CB288

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00675
FPAP ORTHOMETRIC HEIGHT	+00675

QUALITY
25
CHECKED

CITY AND STATE

MANCHESTER, NH

ELEVATION: 266

TDZE: 224

AIRPORT NAME:

MANCHESTER

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 6, AMDT 2B

17 AUGUST 2017

SUP:

AMDT:

2A

DATED:

03/02/2017

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		LNAV: RW24 CLIMBING RIGHT TURN TO 5000 DIRECT CON VOR/DME AND HOLD. CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 149.75 INBOUND. CHART FAS OBST: 669 TREE 425923N/0712013W ONGEE TO RW24: 3.04/50.																					
CON VOR/DME				PUTRE (TF) (FB) (RNP 2.00)				132.67 / 11.26				3000																							
LWM VOR/DME				FABIG (TF) (FB) (RNP 2.00)				002.30 / 17.19				3000																							
ENE VOR/DME (IAF)				WAVBO (TF) (FB) (RNP 1.00)				248.93 / 35.42				2800																							
PUTRE (IAF)				WAVBO (TF) (FB) (RNP 1.00)				147.37 / 5.00				2800																							
FABIG (IAF)				WAVBO (TF) (FB) (RNP 1.00)				327.49 / 5.00				2800																							
(SEE FORM 8260-10)																																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT WAVBO 3. FAC: <u>237.48</u> FAF: <u>ONGEE</u> DIST FAF TO MAP: <u>4.67</u> THLD: <u>4.67</u> 4. MIN. ALT: <u>WAVBO 2800, ONGEE 1800</u> 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: <u>34:1 IS NOT CLEAR</u> 8. MSA FROM: <u>RW24 3500</u>																										MAG VAR: 15W EPOCH YEAR: 2020									
MINIMUMS																																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT													ALTERNATE: N A			STANDARD																			
CATEGORY =====>		A			B			C			D			E																					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA																				
LNAV MDA	880	5000	638	880	5000	638	880	1 3/4	638	880	2	638																							
CIRCLING	880	1	614	880	1	614	880	1 3/4	614	880	2	614																							
NOTES: CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW 5000 RVR NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT LWM VOR/DME. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ENE VOR/DME AIRWAY RADIALS 197 CW 300 AND ARRIVALS AT CON VOR/DME ON V141 NORTHBOUND.																QUALITY 25 CHECKED																			
CITY AND STATE				ELEVATION: 266 TDZE: 242				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:																			
MANCHESTER, NH				AIRPORT NAME:				RNAV				RNAV (GPS) RWY 24, AMDT 1B				AMDT: 1A																			
				MANCHESTER								17 AUGUST 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
WAVBO (IF)	ONGEE (TF) (FB) (RNP 1.00)	237.54 / 6.10	1800
ONGEE (FAF)	RW24 (MAP) (TF) (FO) (RNP 0.30)	237.48 / 4.67	
RW24 (MAP)	666 MSL (CA)	237.48	
666 MSL	CON VOR/DME (DF) (FO) (RNP 1.00)		5000

QUALITY
25
CHECKED

CITY AND STATE

MANCHESTER, NH

ELEVATION: 266

TDZE: 242

AIRPORT NAME:

MANCHESTER

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 24, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

DATED: 03/02/2017

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		LPV: DA LNAV/VNAV: DA LNAV: RW17 CLIMB TO 2000 DIRECT YOU LL AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 351.57 INBOUND. CHART FAS OBST: 509 BLDG 425934N/0712749W 549 AAO 430002N/0712912W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.44 NM TO RW17* *LNAV ONLY. WAAS CHANNEL # 93807 REFERENCE PATH ID: W17A CHART CIRCLING ICON CHART MANDATORY 5000 AT PURBL LTP HAE: 39 M																						
CON VOR/DME (IAF)				BLUUM (TF) (FB) (RNP 1.00)				177.80 / 10.61				2500																								
PURBL (IAF)				LYLAC (TF) (FB) (RNP 1.00)				022.58 / 6.08				3000																								
LYLAC				BLSSM (TF) (FB) (RNP 1.00)				090.13 / 4.22				3000																								
BLSSM				BLUUM (TF) (FB) (RNP 1.00)				138.37 / 3.27				2500																								
BLUUM (IF)				ORDIE (TF) (FB) (RNP 1.00)				171.48 / 3.14				1600																								
(SEE FORM 8260-10)																																				
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT BLUUM 3. FAC: 171.49 FAF: ORDIE DIST FAF TO MAP: 4.05 THLD: 4.05 4. MIN. ALT: BLUUM 2500, ORDIE 1600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: ORDIE 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.10 TCH: 49.1 34:1 IS CLEAR 8. MSA FROM: RW17 3700																	MAG VAR: 15W 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	DH/MDA	VIS	HAT/HAA																		
LPV DA	429	2400	200	429	2400	200	429	2400	200	429	2400	200	429	2400	200																					
LNAV/VNAV DA	729	6000	500	729	6000	500	729	6000	500	729	6000	500	729	6000	500																					
LNAV MDA	760	2400	531	760	2400	531	760	6000	531	760	6000	531	760	6000	531																					
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834																								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 48C (118F). CHART NOTE: DME/DME RNP-0.3 NA. CHART SPEED ICON IN PLANVIEW AT PURBL : MAX 210 KIAS. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (CONTINUED ON PAGE 2)																	@ NA WHEN LOCAL WEATHER NOT AVAILABLE. @ CAT D 900-2 3/4										QUALITY 25 CHECKED									
CITY AND STATE				ELEVATION: 266 TDZE: 229				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:																		
MANCHESTER, NH				AIRPORT NAME: MANCHESTER								RNAV (GPS) Y RWY 17, AMDT 1B						AMDT: 1A																		
												17 AUGUST 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
ORDIE (FAF)	RW17 (MAP) (TF) (FO) (RNP 0.30)	171.49 / 4.05	
RW17 (MAP)	429 MSL (CA)	171.49	
429 MSL	YOUILL (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHUA ALTIMETER SETTING: INCREASE LPV DA TO 461; INCREASE LNAV/VNAV DA TO 761; INCREASE ALL MDA 40 FEET AND LNAV CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: VDP AND BARO-VNAV NA WHEN USING NASHUA ALTIMETER SETTING.

QUALITY
25
CHECKED

CITY AND STATE
MANCHESTER, NH

ELEVATION: 266 TDZE: 229
AIRPORT NAME:
MANCHESTER

FACILITY
IDENTIFIER:
RNAV

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

SUP:
AMDT: 1A
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	KMHT
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	425627.3150N
LTP/FTP LONGITUDE	0712620.6500W
LTP/FTP ELLIPSOIDAL HEIGHT	+00390
FPAP LATITUDE	425505.5695N
FPAP LONGITUDE	0712532.3365W
THRESHOLD CROSSING HEIGHT (TCH)	00049.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
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>	 1B097939

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00665
FPAP ORTHOMETRIC HEIGHT	+00665

QUALITY
25
CHECKED

CITY AND STATE MANCHESTER, NH	ELEVATION: 266 AIRPORT NAME: MANCHESTER	TDZE: 229	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 17, AMDT 1B 17 AUGUST 2017	SUP:
					AMDT: 1A
					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: RW35 CLIMB TO 3000 DIRECT BLUUM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD N, LT, 171.48 INBOUND. CHART FAS OBST: 495 TREE 425541N/0712506W DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 1.33 NM TO RW35* *LNAV ONLY. WAAS CHANNEL # 99614 REFERENCE PATH ID: W35A CHART MANDATORY 5000 AT SHOWZ. CHART CIRCLING ICON. LTP HAE: 53.5 M							
PELAN (IAF)		YOUULL (TF) (FB) (RNP 1.00)		351.59 / 3.76				2500									
SHOWZ (IAF)		IHOBB (TF) (FB) (RNP 1.00)		152.98 / 6.24				3000									
IHOBB		ELEEE (TF) (FB) (RNP 1.00)		086.67 / 5.27				3000									
ELEEE		YOUULL (TF) (FB) (RNP 1.00)		022.17 / 3.47				2500									
YOUULL (IF)		MNTIN (TF) (FB) (RNP 1.00)		351.57 / 3.01				1600									
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT YOUULL 3. FAC: 351.55 FAF: MNTIN DIST FAF TO MAP: 4.02 THLD: 4.02 4. MIN. ALT: YOUULL 2500, MNTIN 1600, XOHWI/1.90 NM TO RW35 920* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1600 GS ALT AT: MNTIN 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.9 34:1 IS NOT CLEAR 8. MSA FROM: RW35 3500										MAG VAR: 15W		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	465	2400	200	465	2400	200	465	2400	200	465	2400	200					
LNAV/VNAV DA	761	6000	496	761	6000	496	761	6000	496	761	6000	496					
LNAV MDA	760	4000	495	760	4000	495	760	5000	495	760	5000	495					
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART SPEED ICON IN PLANVIEW AT PELAN : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT SHOWZ : MAX 210 KIAS. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 266 TDZE: 265				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:			
MANCHESTER, NH		AIRPORT NAME: MANCHESTER						RNAV (GPS) Y RWY 35, AMDT 1B 17 AUGUST 2017						AMDT: 1A			
														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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MNTIN (FAF)	XOHWI/1.90 NM TO RW35 (TF) (FB) (RNP 0.30)	351.55 / 2.12	
XOHWI/1.90 NM TO RW35	RW35 (MAP) (TF) (FO) (RNP 0.30)	351.55 / 1.90	
RW35 (MAP)	465 MSL (CA)	351.55	
465 MSL	BLUUM (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

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

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHUA ALTIMETER SETTING: INCREASE LPV DA TO 497 AND ALL CATS VISIBILITY 1/4 MILE; INCREASE LNAV/VNAV DA TO 793 AND ALL CATS VISIBILITY 1/8 MILE; INCREASE ALL MDA 40 FEET AND LNAV CATS C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE ALSF, INCREASE LNAV CATS A/B VISIBILITY TO RVR 5500 AND CATS C/D VISIBILITY TO 1 3/8 MILE.

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

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED FOR LNAV/VNAV AND LNAV.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV WHEN USING NASHUA ALTIMETER SETTING; FOR INOPERATIVE ALSF WHEN USING NASHUA ALTIMETER SETTING, INCREASE LNAV CATS A/B VISIBILITY TO RVR 6000 AND LNAV CATS C/D TO 1 3/8 MILE.

CHART PLANVIEW NOTE ADJACENT PELAN (IAF): RADAR REQUIRED FOR PROCEDURE ENTRY.

QUALITY
25
CHECKED

CITY AND STATE

MANCHESTER, NH

ELEVATION: 266

TDZE: 265

AIRPORT NAME:

MANCHESTER

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 35, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMHT
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	425514.2565N
LTP/FTP LONGITUDE	0712537.4700W
LTP/FTP ELLIPSOIDAL HEIGHT	+00535
FPAP LATITUDE	425636.0030N
FPAP LONGITUDE	0712625.7840W
THRESHOLD CROSSING HEIGHT (TCH)	00054.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

B9E4BD2F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00809
FPAP ORTHOMETRIC HEIGHT	+00809

QUALITY
25
CHECKED

CITY AND STATE MANCHESTER, NH	ELEVATION: 266 AIRPORT NAME: MANCHESTER	TDZE: 265 MANCHESTER	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 35, AMDT 1B 17 AUGUST 2017	SUP:
					AMDT: 1A
					DATED: 06/25/2015

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 2100 ON TRACK 171.51 TO YOULL AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 351.57 INBOUND. DISTANCE TO THLD FROM 375 HAT: 0.99 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 267.3 (DO NOT CHART) CHART MANDATORY 5000 AT PURBL.										
GRNAT (IAF)		BLUUM (TF) (FB) (RNP 1.00)		171.46 / 2.06			2500												
BLUUM (IF)		ORDIE (TF) (FB) (RNP 1.00)		171.48 / 3.14			1600												
PURBL (IAF)		LLIVE (TF) (FB) (RNP 1.00)		070.94 / 3.08			4000												
LLIVE (IF)		FREEH (TF) (FB) (RNP 1.00)		070.98 / 3.18			3000												
FREEH		ORDIE (RF) (FB) (RNP 1.00)		(2.50 NM RADIUS CW (CFVGQ))/4.38			1600												
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ORDIE 3. FAC: <u>171.49</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: ORDIE 1600 5. DIST TO THLD FROM OM: <u>4.05</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1600</u> GS ALT AT: ORDIE 1600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.10</u> TCH: <u>49.1#</u> 34:1 IS NOT CLEAR 8. MSA FROM: RW17 3700																MAG VAR: 15W		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 0.11 DA	604	4000	375	604	4000	375	604	4000	375	604	4000	375							
RNP 0.26 DA	761	6000	532	761	6000	532	761	6000	532	761	6000	532							
RNP 0.30 DA	835	1 1/2	606	835	1 1/2	606	835	1 1/2	606	835	1 1/2	606							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20C (-4F) OR ABOVE 48C (118F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA. CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT GRNAT : MAX 210 KIAS. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 266 TDZE: 229				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
MANCHESTER, NH		AIRPORT NAME: MANCHESTER						RNAV (RNP) Z RWY 17, AMDT 1A 17 AUGUST 2017				AMDT: 1							
												DATED 01/08/2015							



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.):																			
<table><thead><tr><th>FROM</th><th>TO</th><th>COURSE AND DISTANCE</th><th colspan="2">ALTITUDE</th></tr></thead><tbody><tr><td>ORDIE (FAF)</td><td>RW17 (MAP) (TF) (FO) (RNP 0.30)</td><td>171.49 / 4.05</td><td colspan="2"></td></tr><tr><td>RW17 (MAP)</td><td>YOULL (TF) (FO) (RNP 1.00)</td><td>171.51 / 8.36</td><td colspan="2">2100</td></tr></tbody></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE		ORDIE (FAF)	RW17 (MAP) (TF) (FO) (RNP 0.30)	171.49 / 4.05			RW17 (MAP)	YOULL (TF) (FO) (RNP 1.00)	171.51 / 8.36	2100	
FROM	TO	COURSE AND DISTANCE	ALTITUDE																
ORDIE (FAF)	RW17 (MAP) (TF) (FO) (RNP 0.30)	171.49 / 4.05																	
RW17 (MAP)	YOULL (TF) (FO) (RNP 1.00)	171.51 / 8.36	2100																
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT PURBL : MAX 210 KIAS. CHART PLANVIEW NOTE ADJACENT TO PURBL IAF: RF REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. CHART PLANVIEW NOTE ADJACENT TO GRNAT: RADAR REQUIRED FOR PROCEDURE ENTRY. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 6000, RNP 0.26 ALL CATS VISIBILITY TO 1 3/4 MILES, AND RNP 0.30 ALL CATS VISIBILITY TO 2 MILES.																			
QUALITY 25 CHECKED																			
CITY AND STATE MANCHESTER, NH	ELEVATION: 266 AIRPORT NAME: MANCHESTER	TDZE: 229	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 17, AMDT 1A 17 AUGUST 2017															
				SUP:															
				AMDT: 1															
				DATED: 01/08/2015															

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												
PELAN (IAF)			YOUULL (TF) (FB) (RNP 1.00)				351.59 / 3.76					2500		CLIMB TO 3000 ON TRACK 351.54 TO BLUUM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.												
YOUULL (IF)			MNTIN (TF) (FB) (RNP 1.00)				351.57 / 3.01					1600														
SHOWZ (IAF)			OLDMN (TF) (FB) (RNP 1.00)				107.66 / 3.00					4000														
OLDMN (IF)			OFTHE (TF) (FB) (RNP 1.00)				107.43 / 3.00					3000														
OFTHE			MNTIN (RF) (FB) (RNP 1.00)				(2.50 NM RADIUS CCW (CFVWJ))/5.06					1600		ADDITIONAL FLIGHT DATA: HOLD N, LT, 171.48 INBOUND. DISTANCE TO THLD FROM 490 HAT: 1.37 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 320.3 (DO NOT CHART) CHART MANDATORY 5000 AT SHOWZ.												
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																										
2. PROFILE STARTS AT MNTIN																										
3. FAC: 351.53 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																										
4. MIN. ALT: MNTIN 1600																										
5. DIST TO THLD FROM OM: 4.02 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: 1600 GS ALT AT: MNTIN 1600 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 54.9# 34:1 IS NOT CLEAR																										
8. MSA FROM: RW35 3500																										
MAG VAR: 15W 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 0.20 DA	755	6000	490	755	6000	490	755	6000	490	755	6000	490														
RNP 0.30 DA	802	1 3/8	537	802	1 3/8	537	802	1 3/8	537	802	1 3/8	537														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT PELAN : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT SHOWZ : MAX 210 KIAS. (CONTINUED ON PAGE 2)																										
CITY AND STATE MANCHESTER, NH				ELEVATION: 266 TDZE: 265 AIRPORT NAME: MANCHESTER				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 35, ORIG-A 17 AUGUST 2017						SUP: AMDT: ORIG DATED 01/08/2015										



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	
MNTIN (FAF)	RW35 (MAP) (TF) (FO) (RNP 0.30)		351.53 / 4.02		
RW35 (MAP)	BLUUM (TF) (FO) (RNP 1.00)		351.54 / 8.51	3000	
NOTES, (CONT.):					
CHART PLANVIEW NOTE ADJACENT TO SHOWZ: RF REQUIRED.					
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).					
CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, PROCEDURE NA.					
CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE RNP 0.20 ALL CATS VISIBILITY TO 1 5/8 SM AND RNP 0.30					
ALL CATS VISIBILITY TO 1 3/4 SM.					
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.					
CITY AND STATE		ELEVATION: 266	TDZE: 265	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
MANCHESTER, NH		AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 35, ORIG-A
		MANCHESTER			17 AUGUST 2017
					SUP:
					AMDT: ORIG
					DATED: 01/08/2015



ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: I-CUA 1.54 DME CLIMB TO 3000 THEN CLIMBING RIGHT TURN TO 7000 DIRECT BLD VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 330.00 INBOUND. CHART FAS OBST: 2463 BLDG 360226N/1151106W 2570 AAO 360145N/1151226W CHART VDP AT 2.89 DME* DISTANCE VDP TO THLD 1.34 NM. *LOC ONLY. CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME REQUIRED.							
WOPMA/I-CUA 36.45 DME		CEDAX/I-CUA 30.72 DME		013.91 / 5.73 (I-CUA)				11000									
CEDAX/I-CUA 30.72 DME		SHANQ/I-CUA 26.22 DME		013.91 / 4.50 (I-CUA)				9700									
SHANQ/I-CUA 26.22 DME		KRUDY/I-CUA 19.83 DME		013.91 / 6.39 (I-CUA)				8000									
KRUDY/I-CUA 19.83 DME (IAF)		TRREY/I-CUA 16.03 DME		013.91 / 3.79 (I-CUA)				7000									
TRREY/I-CUA 16.03 DME (IF)		CODNO/I-CUA 13.18 DME		013.91 / 2.85 (I-CUA)				6300									
CODNO/I-CUA 13.18 DME		NODIY/I-CUA 10.03 DME		013.91 / 3.15 (I-CUA)				5300									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT TRREY 3. FAC: 013.91 FAF: NODIY/I-CUA 10.03 DME DIST FAF TO MAP: _____ THLD: 8.49 4. MIN. ALT: TRREY 7000, CODNO 6300, NODIY 5300, SOSOY/I-CUA 7.34 DME 4300*, ZABES/I-CUA 4.84 DME 3400* 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - 100 HAT: _____ - GS ANT: 1296 6. MIN GS INCPT: 5300 GS ALT AT: NODIY 5300 OM: _____ - _____ MM: _____ - _____ IM: _____ 7. GS ANGLE: 3.40 TCH: 59.3 8. MSA FROM: LAS VORTAC 030-120 6700, 120-210 8400, 210-300 13200, 300-030 10200										MAG VAR: 11E		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 01L	2460	3/4	284	2460	3/4	284	2460	3/4	284								
S-LOC 01L	2720	3/4	544	2720	3/4	544	2720	1 3/8	544								
CIRCLING	3020	1 1/4	839	3040	1 1/4	859	3100	2 3/4	919								
NOTES: CHART NOTE: RWY 1L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME REQUIRED. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 1L ALL CATS VISIBILITY TO 7/8 SM. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOPMA ON V21-283-587 SOUTHWEST BOUND.																	
CITY AND STATE		ELEVATION: 2181 TDZE: 2176		FACILITY IDENTIFIER: I-CUA		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: ILS OR LOC/DME							
LAS VEGAS, NV		AIRPORT NAME:		MC CARRAN INTL		ILS OR LOC RWY 1L, AMDT 2				RWY 1L							
						17 AUGUST 2017				AMDT: 1A							
										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.

QUALITY
18
CHECKED

CITY AND STATE
LAS VEGAS, NV

ELEVATION: 2181 TDZE: 2176
AIRPORT NAME:
MC CARRAN INTL

FACILITY
IDENTIFIER:
I-CUA

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 1L, AMDT 2
17 AUGUST 2017

SUP: ILS OR LOC/DME
RWY 1L
AMDT: 1A
DATED: 04/28/2016

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.31 NM AFTER RELIN INT/I-RLE 7.21 DME OR AT I-RLE 1.90 DME CLIMB TO 3100 THEN CLIMBING RIGHT TURN TO 7000 DIRECT BLD VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ALTERNATE MA (DO NOT CHART): CLIMB TO 3100 THEN CLIMBING RIGHT TURN TO 7000 ON HEADING 083 AND LAS R-066 TO LAPIN INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 330.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE LAPIN INT, LT, 246.00 INBOUND. CHART FAS OBST: 2097 TOWER 360417N/1150715W CHART 2074 TREE 360427N/1150706W CHART 3229 MONUMENT 360851N/1150920W CHART VDP AT 3.11 DME* DISTANCE VDP TO THLD 1.21 NM. *LOC ONLY. CHART IN PLANVIEW: LAPIN INT. CHART MANDATORY 8000 AT PRINO. CHART CIRCLING ICON.					
PRINO INT/I-RLE 21.27 DME (IAF)		LARRE INT/I-RLE 15.99 DME		258.95 / 5.28 (I-RLE)				6500							
LARRE INT/I-RLE 15.99 DME (IF)		SHAND INT/I-RLE 10.80 DME		258.95 / 5.20 (I-RLE)				4900							
SHAND INT/I-RLE 10.80 DME		RELIN INT/I-RLE 7.21 DME		258.95 / 3.59 (I-RLE)				3800							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PRINO 3. FAC: <u>258.95</u> FAF: <u>RELIN INT/I-RLE 7.21 DME</u> DIST FAF TO MAP: <u>5.31</u> THLD: <u>5.31</u> 4. MIN. ALT: <u>PRINO 8000, LARRE 6500, SHAND 4900, RELIN 3800</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: <u>1124</u> 6. MIN GS INCPT: <u>3800</u> GS ALT AT: <u>RELIN 3800</u> OM: _____ - _____ MM: _____ - _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>60.0</u> 8. MSA FROM: <u>LAS VORTAC 030-120 6700, 120-210 8400, 210-300 13200, 300-030 10200</u>										MAG VAR: <u>11E</u>		EPOCH YEAR: <u>2020</u>			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: <u>N A</u>		ILS: # _____		LOC: @ _____				
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 26L	2269	3/4	200	2269	3/4	200	2269	3/4	200	2269	3/4	200	2269	3/4	200
S-LOC 26L	2520	3/4	451	2520	3/4	451	2520	1	451	2520	1	451	2520	1	451
SIDESTEP 26R	2560	1	493	2560	1	493	2560	1 1/2	493	2560	2	493	2560	2	493
CIRCLING	3020	1 1/4	839	3040	1 1/4	859	3100	2 3/4	919	3540	3	1359	3540	3	1359
NOTES: CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS RWY 26L AND SIDESTEP RWY 26R. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 26L CAT C/D/E VISIBILITY TO 1 3/8 SM.															
CITY AND STATE LAS VEGAS, NV		ELEVATION: 2181 AIRPORT NAME: MC CARRAN INTL		TDZE: 26L 2069 TDZE: 26R 2067		FACILITY IDENTIFIER: I-RLE		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 26L, AMDT 6 17 AUGUST 2017				SUP: ILS OR LOC RWY 25L			
												AMDT: 5B			
												DATED 04/27/2017			



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: 5.33 NM AFTER CONDY INT/I-LAS 7.57 DME OR AT I-LAS 2.25 DME CLIMB TO 3200 THEN CLIMBING RIGHT TURN TO 6000 DIRECT BLD VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000. ALTERNATE MA (DO NOT CHART): CLIMB TO 3200 THEN CLIMBING RIGHT TURN TO 7000 ON HEADING 083 AND LAS R-066 TO LAPIN INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 330.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE LAPIN INT/LAS VORTAC 19.54 DME, LT, 246.00 INBOUND. CHART FAS OBST: 2074 TREE 360427N/1150706W CHART FAS OBST: 2097 TOWER 360417N/1150715W CHART VDP AT 3.59 DME* DISTANCE VDP TO THLD 1.35 NM. *LOC ONLY. CHART IN PLANVIEW: LAPIN INT/LAS VORTAC 19.54 DME. CHART CIRCLING ICON. CHART IN PLANVIEW: LAPIN INT.						
CRESO INT/BLD 19.82 DME		BLD VORTAC		032.99 / 19.82			7600								
CROWE INT/I-LAS 40.82 DME		FLYES INT/I-LAS 19.90 DME		258.96 / 20.92 (I-LAS)			8000								
BLD VORTAC (IAF)		HAWKO INT/I-LAS 12.68 DME		319.32 / 5.36			5400								
FLYES INT/I-LAS 19.90 DME (IAF)		FLICR INT/I-LAS 15.59 DME		258.96 / 4.31 (I-LAS)			6500								
FLICR INT/I-LAS 15.59 DME		HAWKO INT/I-LAS 12.68 DME		258.96 / 2.91 (I-LAS)			5400								
HAWKO INT/I-LAS 12.68 DME (IF)		CONDY INT/I-LAS 7.57 DME		258.96 / 5.11 (I-LAS)			3800								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FLYES 3. FAC: <u>258.96</u> FAF: <u>CONDY INT/I-LAS 7.57 DME</u> DIST FAF TO MAP: <u>5.33</u> THLD: <u>5.33</u> 4. MIN. ALT: <u>FLYES 8000, FLICR 6500, HAWKO 5400, CONDY 3800</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ - 150 HAT: _____ - 100 HAT: _____ - GS ANT: 1128 6. MIN GS INCPT: <u>3800</u> GS ALT AT: <u>CONDY 3800</u> OM: _____ - _____ MM: _____ - _____ IM: _____ - 7. GS ANGLE: <u>3.00</u> TCH: <u>60.0</u> 8. MSA FROM: <u>LAS VORTAC 030-120 6700, 120-210 8400, 210-300 13200, 300-030 10200</u>															
										MAG VAR: 11E			EPOCH YEAR: 2020		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: @				
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 26R	2359	3/4	292	2359	3/4	292	2359	3/4	292	2359	3/4	292	2359	3/4	292
S-LOC 26R	2560	3/4	493	2560	3/4	493	2560	1 1/8	493	2560	1 1/8	493	2560	1 1/8	493
SIDESTEP 26L	2560	1	491	2560	1	491	2560	1 1/2	491	2560	2	491	2560	2	491
CIRCLING	3020	1 1/4	839	3040	1 1/4	859	3100	2 3/4	919	3540	3	1359	3540	3	1359
NOTES: CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BLD VORTAC AIRWAY RADIALS 274 CW 016. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP RWY 26L. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 26R ALL CATS VISIBILITY TO 1 SM, AND S-LOC 26R CAT D AND E VISIBILITY TO 1 3/8 SM.															
CITY AND STATE LAS VEGAS, NV				ELEVATION: 2181 AIRPORT NAME: MC CARRAN INTL		TDZE: 26R 2067 TDZE: 26L 2069		FACILITY IDENTIFIER: I-LAS		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 26R, AMDT 19 17 AUGUST 2017				SUP: ILS OR LOC RWY	
														25R	
														AMDT: 18	
												DATED 04/28/2016			

QUALITY
18
CHECKED

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.															
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LP: JABNA LNAV: JABNA CLIMBING LEFT TURN TO 6000 DIRECT LAPIN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 070.15 INBOUND. CHART FAS OBST: 2590 BLDG 360624N/1150959W CHART FAS OBST: 2147 TRMSN TWR 360655N/1150831W CHART VDP AT 1.02 NM TO JABNA. WAAS CHANNEL # 45542 REFERENCE PATH ID: W19A CHART CIRCLING ICON. FICTITIOUS THRESHOLD POINT (CFVPC) DO NOT CHART. RANVE TO RW19L: 3.08/60. FAC CROSSES RWY C/L EXTENDED 3003 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 9.71 DEGREES. FTP HAE: 606 M									
LAS VORTAC		HAMIG (TF) (FO) (RNP 2.00)		021.73 / 13.68				5800											
LAPIN		HAMIG (TF) (FO) (RNP 2.00)		294.60 / 14.59				5800											
SUVIE (IAF)		HAMIG (NOPT) (TF) (FB) (RNP 1.00)		230.89 / 11.15				5800											
HAMIG (IF/IAF)		JOGMU (TF) (FB) (RNP 1.00)		203.71 / 2.10				5300											
JOGMU		RANVE (TF) (FB) (RNP 1.00)		203.69 / 4.00				4300											
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE HAMIG, LT, 203.71 INBOUND, 5800 FT. IN LIEU OF PT (IF/IAF) 3. FAC: 203.68 FAF: RANVE DIST FAF TO MAP: 6.12 THLD: 6.61 4. MIN. ALT: HAMIG 5800, JOGMU 5300, RANVE 4300 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS CLEAR 8. MSA FROM: JABNA 13200																MAG VAR: 11E		EPOCH YEAR: 2020	
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	2640	1	528	2640	1	528	2640	1 1/2	528	2640	1 1/2	528							
LNAV MDA	2760	1	648	2760	1	648	2760	1 7/8	648	2760	1 7/8	648							
CIRCLING	3020	1 1/4	839	3040	1 1/4	859	3100	2 3/4	919	3540	3	1359							
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																@ CAT A, B 900-2, CAT C 1000-2 3/4, CAT D 1400-3			
CITY AND STATE LAS VEGAS, NV				ELEVATION: 2181 TDZE: 2112 AIRPORT NAME: MC CARRAN INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19L, AMDT 2 17 AUGUST 2017				SUP: AMDT: 1A DATED 01/12/2012					

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RANVE (FAF)	JABNA (MAP) (TF) (FO) (RNP 0.30)	203.68 / 6.12	
JABNA (MAP)	2581 MSL (CA)	203.68	
2581 MSL	LAPIN (DF) (FO) (RNP 1.00)		6000

QUALITY
18
CHECKED

CITY AND STATE
LAS VEGAS, NV

ELEVATION: 2181 TDZE: 2112
AIRPORT NAME:
MC CARRAN INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 19L, AMDT 2
17 AUGUST 2017

SUP:
AMDT: 1A
DATED: 01/12/2012

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAS
RUNWAY	RW19L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	360549.8530N
LTP/FTP LONGITUDE	1150922.3880W
LTP/FTP ELLIPSOIDAL HEIGHT	+06060
FPAP LATITUDE	360436.4295N
FPAP LONGITUDE	1151024.8515W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.08
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

8E085986

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+06341
FPAP ORTHOMETRIC HEIGHT	+06341

QUALITY
18
CHECKED

CITY AND STATE LAS VEGAS, NV	ELEVATION: 2181 AIRPORT NAME: MC CARRAN INTL	TDZE: 2112 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19L, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1A
				DATED: 01/12/2012

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: PIRME LNAV: PIRME CLIMBING LEFT TURN TO 6000 DIRECT LAPIN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 070.15 INBOUND. CHART FAS OBST: 2590 BLDG 360624N/1150959W CHART FAS OBST: 2154 BDG 360601N/1150936W CHART VDP AT 1.17 NM TO PIRME. WAAS CHANNEL # 50142 REFERENCE PATH ID: W19B CHART CIRCLING ICON. FICTITIOUS THRESHOLD POINT (CFVNV) DO NOT CHART. RANVE TO RW19R 3.06/60. FAC CROSSES RWY C/L EXTENDED 3001 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 11.15 DEGREES. FTP HAE: 608.6 M											
LAS VORTAC	HAMIG (TF) (FO) (RNP 2.00)	021.73 / 13.68	5800												
LAPIN	HAMIG (TF) (FO) (RNP 2.00)	294.60 / 14.59	5800												
SUVIE (IAF)	HAMIG (NOPT) (TF) (FB) (RNP 1.00)	230.89 / 11.15	5800												
HAMIG (IF/IAF)	JOGMU (TF) (FB) (RNP 1.00)	203.71 / 2.10	5300												
JOGMU	RANVE (TF) (FB) (RNP 1.00)	203.69 / 4.00	4300												
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE HAMIG, LT, 203.71 INBOUND, 5800 FT. IN LIEU OF PT (IF/IAF) 3. FAC: 205.12 FAF: RANVE DIST FAF TO MAP: 6.13 THLD: 6.62 4. MIN. ALT: HAMIG 5800, JOGMU 5300, RANVE 4300 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: PIRME 13200				MAG VAR: 11E EPOCH YEAR: 2020											
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	2700	1	583	2700	1	583	2700	1 3/4	583	2700	1 3/4	583			
LNAV MDA	2880	1	763	2880	1 1/4	763	2880	2 1/2	763	2880	2 1/2	763			
CIRCLING	3020	1 1/4	839	3040	1 1/4	859	3100	2 3/4	919	3540	3	1359			
NOTES: CHART NOTE: RWY 19R 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}).															
CITY AND STATE				ELEVATION: 2181 TDZE: 2117		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
LAS VEGAS, NV				AIRPORT NAME:				RNAV (GPS) RWY 19R, AMDT 2				AMDT: 1A			
				MC CARRAN INTL				17 AUGUST 2017				DATED 01/12/2012			

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RANVE (FAF)	PIRME (MAP) (TF) (FO) (RNP 0.30)	205.12 / 6.13	
PIRME (MAP)	2581 MSL (CA)	205.12	
2581 MSL	LAPIN (DF) (FO) (RNP 1.00)		6000

QUALITY
18
CHECKED

CITY AND STATE
LAS VEGAS, NV

ELEVATION: 2181 TDZE: 2117
AIRPORT NAME:
MC CARRAN INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 19R, AMDT 2
17 AUGUST 2017

SUP:
AMDT: 1A
DATED: 01/12/2012

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAS
RUNWAY	RW19R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19B
LTP/FTP LATITUDE	360555.1130N
LTP/FTP LONGITUDE	1150932.9340W
LTP/FTP ELLIPSOIDAL HEIGHT	+06086
FPAP LATITUDE	360443.0245N
FPAP LONGITUDE	1151037.6295W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.06
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 59116954

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+06366
FPAP ORTHOMETRIC HEIGHT	+06366

QUALITY
18
CHECKED

CITY AND STATE LAS VEGAS, NV	ELEVATION: 2181 AIRPORT NAME: MC CARRAN INTL	TDZE: 2117 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19R, AMDT 2 17 AUGUST 2017	SUP:
				AMDT: 1A
				DATED: 01/12/2012

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

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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
LAS VEGAS, NV	MC CARRAN INTL	17 AUGUST 2017	8

TAKEOFF MINIMUMS:

RWY 1R, 8L, 8R: STANDARD

RWY 1L: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 269 FT PER NM TO 2300.

RWY 19L: STANDARD WITH MINIMUM CLIMB OF 256 FT PER NM TO 3400.

RWY 19R: STANDARD WITH MINIMUM CLIMB OF 242 FT PER NM TO 3400.

RWY 26L: 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 214 FT PER NM TO 2400.

RWY 26R: 400-2 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 270 FT PER NM TO 2400.

TEXTUAL DEPARTURE PROCEDURES:

RWY 1L, 1R: CLIMBING RIGHT TURN DIRECT BLD VORTAC BEFORE PROCEEDING ON COURSE.

RWY 8L, 8R: CLIMB HEADING 078.93 TO 3700, THEN CLIMBING RIGHT TURN DIRECT BLD VORTAC BEFORE PROCEEDING ON COURSE.

RWY 19L, 19R: CLIMB HEADING 193.92 TO 2800, THEN CLIMBING LEFT TURN HEADING 120 AND BLD R-257 TO BLD VORTAC BEFORE PROCEEDING ON COURSE.

RWY 26L, 26R: CLIMB HEADING 258.95 TO 2800, THEN CLIMBING RIGHT TURN DIRECT BLD VORTAC BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1L: REIL 23 FT FROM DER, 153 FT LEFT OF CENTERLINE, 3 FT AGL/2090 FT MSL. SIGN 1037 FT FROM DER, 695 FT LEFT OF CENTERLINE, 41 FT AGL/2125 FT MSL. BLDG 1556 FT FROM DER, 552 FT LEFT OF CENTERLINE, 2129 FT MSL. BLDG 1779 FT FROM DER, 649 FT LEFT OF CENTERLINE, 2147 FT MSL. BLDGS BEGINNING 1907 FT FROM DER, 186 FT LEFT OF CENTERLINE, UP TO 2150 FT MSL. BLDGS BEGINNING 1977 FT FROM DER, 214 FT LEFT OF CENTERLINE, UP TO 2150 FT MSL. BLDGS BEGINNING 2095 FT FROM DER, 275 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/2153 FT MSL. BLDGS BEGINNING 3953 FT FROM DER, 1397 FT LEFT OF CENTERLINE, UP TO 162 FT AGL/2226 FT MSL. BLDG 4126 FT FROM DER, 1090 FT LEFT OF CENTERLINE, 2229 FT MSL. BLDG 4542 FT FROM DER, 1400 FT LEFT OF CENTERLINE, 183 FT AGL/2240 FT MSL. BLDG 4604 FT FROM DER, 1367 FT LEFT OF CENTERLINE, 186 FT AGL/2243 FT MSL.

NOTE: RWY 1R: BLDG 609 FT FROM DER, 538 FT RIGHT OF CENTERLINE, 28 FT AGL/2095 FT MSL. SIGN 1336 FROM DER, 447 FT RIGHT OF CENTERLINE, 60 FT AGL/2122 FT MSL.

NOTE: RWY 8L: POLE 744 FT FROM DER, 442 FT RIGHT OF CENTERLINE, 30 FT AGL/2057 FT MSL. TREE 758 FT FROM DER, 168 FT RIGHT OF CENTERLINE, 2068 FT MSL. TREE 767 FT FROM DER, 589 FT LEFT OF CENTERLINE, 2060 FT MSL. TREE 850 FT FROM DER, 184 FT LEFT OF CENTERLINE, 2067 FT MSL. TREES BEGINNING 886 FT FROM DER, 371 FT RIGHT OF CENTERLINE, UP TO 2074 FT MSL.

NOTE: RWY 8R: TOWER 1457 FT FROM DER, 848 FT RIGHT OF CENTERLINE, 64 FT AGL/2097 FT MSL.

NOTE: RWY 19L: RAILROAD, POLE BEGINNING 952 FT FROM DER, 322 FT LEFT OF CENTERLINE, UP TO 2215 FT MSL. RR 1043 FT FROM DER, 178 FT LEFT OF CENTERLINE, 2218 FT MSL. RR, POLE BEGINNING 1122 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 2219 FT MSL. RR 1166 FT FROM DER, 75 FT RIGHT OF CENTERLINE, 2220 FT MSL. RR 1219 FT FROM DER, 235 FT RIGHT OF CENTERLINE, 2222 FT MSL. RR 1230 FT FROM DER, 281 FT RIGHT OF CENTERLINE, 2223 FT MSL. POLE 1234 FT FROM DER, 178 FT LEFT OF CENTERLINE, 2221 FT MSL. RR 1241 FT FROM DER, 351 FT RIGHT OF CENTERLINE, 2224 FT MSL. RR 1246 FT FROM DER, 489 FT RIGHT OF CENTERLINE, 2225 FT MSL. RR, POLE BEGINNING 1247 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 2226 FT MSL. POLES, TREE, VEHICLES ON ROAD, SIGN, PARKING LOT BEGINNING 1392 FT FROM DER, 115 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/2238 FT MSL. TREE, POLE BEGINNING 1410 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 2232 FT MSL. TREE 1819 FT FROM DER, 124 FT LEFT OF CENTERLINE, 2236 FT MSL. POLE, TREE, VEHICLES ON ROAD BEGINNING 1824 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/2242 FT MSL. POLE 1933 FT FROM DER, 623 FT RIGHT OF CENTERLINE, 34 FT AGL/2243 FT MSL. POLE, TREE BEGINNING 1936 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/2245 FT MSL. POLE, TREE, PARKING LOT BEGINNING 2036 FT FROM DER, 386 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/2246 FT MSL. POLE, PARKING LOT, TREE, VEHICLES ON ROAD BEGINNING 2133 FT FROM DER, 183 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/2247 FT MSL. SIGN, TREE, PARKING LOT, VEHICLES ON ROAD, POLE, BLDG BEGINNING 2179 FT FROM DER, 27 FT RIGHT OF CENTERLINE, UP TO 2256 FT MSL. POLE 2229 FT FROM DER, 578 FT LEFT OF CENTERLINE, 2238 FT MSL. POLES BEGINNING 2332 FT FROM DER, 583 FT LEFT OF CENTERLINE, UP TO 2240 FT MSL. SIGN, TREE, POLE, PARKING LOT, BLDG BEGINNING 2381 FT FROM DER, 53 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/2257 FT MSL. BLDG, TREE, POLE BEGINNING 2466 FT FROM DER, 591 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/2258 FT MSL. BLDG, TREE, POLES, UTILITY BOX BEGINNING 2505 FT FROM DER, 157 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/2259 FT MSL. POLE, BLDG BEGINNING 2738 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 2251 FT MSL. BLDG, TREE BEGINNING 2739 FT FROM DER, 1134 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/2279 FT MSL. BLDG, TREE BEGINNING 2766 FT FROM DER, 869 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/2280 FT MSL. BLDG, TREE BEGINNING 2822 FT FROM DER, 1006 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/2281 FT MSL. BLDGS, TREE, POLES BEGINNING 2861 FT FROM DER, 665 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/2282 FT MSL. BLDGS, POLE BEGINNING 3418 FT FROM DER, 884 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/2284 FT MSL. BLDG, POLE BEGINNING 3515 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/2287 FT MSL. SIGN 5292 FT FROM DER, 1688 FT RIGHT OF CENTERLINE, 55 FT AGL/2309 FT MSL. BLDG, POLE BEGINNING 5596 FT FROM DER, 1758 FT LEFT OF CENTERLINE, UP TO 110 FT AGL/2334 FT MSL. COMMUNICATION TWR 5717 FT FROM DER, 781 FT RIGHT OF CENTERLINE, 80 FT AGL/2327 FT MSL. BLDG 2 NM FROM DER, 2897 FT LEFT OF CENTERLINE, 236 FT AGL/2491 FT MSL. BLDGS BEGINNING 2 NM FROM DER, 2936 FT LEFT OF CENTERLINE, UP TO 241 FT AGL/2494 FT MSL.



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

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
LAS VEGAS, NV	MC CARRAN INTL	17 AUGUST 2017	8

NOTE: RWY 19R: GRD 60 FT FROM DER, 475 FT RIGHT OF CENTERLINE, 2186 FT MSL. GRD 151 FT FROM DER, 529 FT RIGHT OF CENTERLINE, 2190 FT MSL. BLDG 194 FT FROM DER, 444 FT RIGHT OF CENTERLINE, 9 FT AGL/2199 FT MSL. NAVAID 262 FT FROM DER, 408 FT RIGHT OF CENTERLINE, 14 FT AGL/2206 FT MSL. VEHICLES ON ROAD, GRD, CONTROL BOX BEGINNING 348 FT FROM DER, 42 FT RIGHT OF CENTERLINE, UP TO 2208 FT MSL. POLE, VEHICLES ON ROAD BEGINNING 503 FT FROM DER, 434 FT RIGHT OF CENTERLINE, UP TO 2218 FT MSL. POLE, SIGN, VEHICLES ON ROAD, FLAG POLE, FENCE BEGINNING 592 FT FROM DER, 277 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/2234 FT MSL. SIGNS, PARKING LOT, VEHICLES ON ROAD, BLDG, POLE, TREE BEGINNING 844 FT FROM DER, 266 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/2240 FT MSL. TOWER, FENCE, VEHICLES ON ROAD, SIGN BEGINNING 961 FT FROM DER, 175 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/2243 FT MSL. T-L TWR, VEHICLES ON ROAD, RAILROAD, POLE, RR CROSSING SIGNAL CONTROL BOX, PARKING LOT BEGINNING 1132 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/2249 FT MSL. RAILROAD 1219 FT FROM DER, 701 FT LEFT OF CENTERLINE, 2222 FT MSL. RAILROAD 1230 FT FROM DER, 656 FT LEFT OF CENTERLINE, 2223 FT MSL. RAILROAD 1240 FT FROM DER, 585 FT LEFT OF CENTERLINE, 2224 FT MSL. RAILROAD 1246 FT FROM DER, 448 FT LEFT OF CENTERLINE, 2225 FT MSL. RAILROAD, POLE BEGINNING 1247 FT FROM DER, 76 FT LEFT OF CENTERLINE, UP TO 2226 FT MSL. POLES, TREE, VEHICLES ON ROAD, SIGN BEGINNING 1392 FT FROM DER, 15 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2238 FT MSL. POLES, TREE, PARKING LOT, BLDG BEGINNING 1726 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 2254 FT MSL. POLE, TREE BEGINNING 1823 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/2242 FT MSL. POLE 1933 FT FROM DER, 313 FT LEFT OF CENTERLINE, 34 FT AGL/2243 FT MSL. POLE, TREE BEGINNING 1935 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2245 FT MSL. POLE, TREE BEGINNING 2036 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/2246 FT MSL. POLES, BLDG, TREE BEGINNING 2043 FT FROM DER, 221 FT RIGHT OF CENTERLINE, UP TO 2255 FT MSL. POLE, TREE BEGINNING 2133 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2247 FT MSL. TREE, POLES, SIGN, BLDG BEGINNING 2146 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 2259 FT MSL. POLE, BLDG, TREE BEGINNING 2234 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/2249 FT MSL. POLE, TREE BEGINNING 2335 FT FROM DER, 88 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2250 FT MSL. SIGN, TREE, POLES, BLDG BEGINNING 2381 FT FROM DER, 37 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/2257 FT MSL. POLE, BLDGS, TREE BEGINNING 2496 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 2274 FT MSL. BLDG BEGINNING 2739 FT FROM DER, 196 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/2279 FT MSL. BLDG, TREE BEGINNING 2766 FT FROM DER, 73 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/2280 FT MSL. BLDG BEGINNING 2767 FT FROM DER, 44 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2258 FT MSL. BLDG, TREE BEGINNING 2822 FT FROM DER, 68 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/2281 FT MSL. BLDG, TREE BEGINNING 2861 FT FROM DER, 126 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/2282 FT MSL. BLDGS, TREE BEGINNING 2893 FT FROM DER, 6 FT RIGHT OF CENTERLINE, UP TO 2288 FT MSL. BLDG BEGINNING 2895 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/2262 FT MSL. BLDGS, TREE BLDG BEGINNING 3032 FT FROM DER, 301 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/2290 FT MSL. BLDGS, TREE, POLE BEGINNING 3076 FT FROM DER, 58 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/2291 FT MSL. BLDGS, SIGN, POLES BEGINNING 3459 FT FROM DER, 287 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/2302 FT MSL. BLDG 3495 FT FROM DER, 53 FT LEFT OF CENTERLINE, 52 FT AGL/2278 FT MSL. COMMUNICATION TWR 5717 FT FROM DER, 156 FT LEFT OF CENTERLINE, 80 FT AGL/2327 FT MSL.

NOTE: RWY 26L: BLDG 1002 FT FROM DER, 250 FT LEFT OF CENTERLINE, 6 FT AGL/2183 FT MSL. RAILROAD, POLE BEGINNING 1857 FT FROM DER, 793 FT LEFT OF CENTERLINE, UP TO 2215 FT MSL. RAILROAD 2068 FT FROM DER, 796 FT LEFT OF CENTERLINE, 2218 FT MSL. POLE, RAILROAD BEGINNING 2148 FT FROM DER, 800 FT LEFT OF CENTERLINE, UP TO 2221 FT MSL. TREE, RAILROAD BEGINNING 2376 FT FROM DER, 780 FT LEFT OF CENTERLINE, UP TO 2232 FT MSL. TREE, RAILROAD BEGINNING 2528 FT FROM DER, 751 FT LEFT OF CENTERLINE, UP TO 2233 FT MSL. POLE 2861 FT FROM DER, 811 FT LEFT OF CENTERLINE, 36 FT AGL/2238 FT MSL. POLE 3167 FT FROM DER, 1144 FT LEFT OF CENTERLINE, 34 FT AGL/2242 FT MSL. POLE 3171 FT FROM DER, 1091 FT LEFT OF CENTERLINE, 34 FT AGL/2243 FT MSL. POLE 3313 FT FROM DER, 1200 FT LEFT OF CENTERLINE, 35 FT AGL/2246 FT MSL. SIGN, T-L TWR BEGINNING 3672 FT FROM DER, 145 FT LEFT OF CENTERLINE, UP TO 2256 FT MSL. POLE, BLDG BEGINNING 4223 FT FROM DER, 1389 FT LEFT OF CENTERLINE, UP TO 2274 FT MSL. BLDG 4554 FT FROM DER, 1593 FT LEFT OF CENTERLINE, 2277 FT MSL. BLDG 4687 FT FROM DER, 1685 FT LEFT OF CENTERLINE, 53 FT AGL/2279 FT MSL. BLDG 4719 FT FROM DER, 1754 FT LEFT OF CENTERLINE, 61 FT AGL/2290 FT MSL. BLDG 4954 FT FROM DER, 1694 FT LEFT OF CENTERLINE, 61 FT AGL/2291 FT MSL. TRMSN TWR 5469 FT FROM DER, 1056 FT LEFT OF CENTERLINE, 2297 FT MSL. POLE 5879 FT FROM DER, 1519 FT LEFT OF CENTERLINE, 2309 FT MSL. POLE 6019 FT FROM DER, 2022 FT RIGHT OF CENTERLINE, 101 FT AGL/2309 FT MSL. POLE 1 NM FROM DER, 1720 FT LEFT OF CENTERLINE, 46 FT AGL/2311 FT MSL. POLE 1 NM FROM DER, 1922 FT LEFT OF CENTERLINE, 45 FT AGL/2311 FT MSL. TOWER 1.1 NM FROM DER, 1843 FT LEFT OF CENTERLINE, 80 FT AGL/2332 FT MSL. POLE 1.8 NM FROM DER, 1817 FT LEFT OF CENTERLINE, 131 FT AGL/2435 FT MSL.

NOTE: RWY 26R: NAVAIDS, BLDG BEGINNING 533 FT FROM DER, 367 FT LEFT OF CENTERLINE, UP TO 14 FT AGL/2206 FT MSL. NAVAIDS BEGINNING 533 FT FROM DER, ON CENTERLINE, UP TO 5 FT AGL/2195 FT MSL. VEHICLES ON ROAD BEGINNING 666 FT FROM DER, CROSSING LEFT AND RIGHT OF CENTERLINE, UP TO 2208 FT MSL. POLE 785 FT FROM DER, 592 FT LEFT OF CENTERLINE, 2218 FT MSL. POLE, TREE BEGINNING 786 FT FROM DER, 8 FT LEFT OF CENTERLINE, UP TO 2220 FT MSL. TREES BEGINNING 821 FT FROM DER, 49 FT RIGHT OF CENTERLINE, UP TO 25 FT AGL/2214 FT MSL. POLE, SIGN, TREE, BLDG BEGINNING 873 FT FROM DER, 347 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/2234 FT MSL. TREES BEGINNING 952 FT FROM DER, 48 FT RIGHT OF CENTERLINE, UP TO 2233 FT MSL. POLE, TREE, RAILROAD BEGINNING 1093 FT FROM DER, 531 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/2237 FT MSL. TREES BEGINNING 1559 FT FROM DER, 555 FT RIGHT OF CENTERLINE, UP TO 2259 FT MSL. TREE, BLDG, RAILROAD BEGINNING 1812 FT FROM DER, 191 FT LEFT OF CENTERLINE, UP TO 2246 FT MSL. BLDG 2501 FT FROM DER, 881 FT LEFT OF CENTERLINE, 2254 FT MSL. POLES BEGINNING 3002 FT FROM DER, 543 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/2271 FT MSL. POLES BEGINNING 3005 FT FROM DER, 743 FT LEFT OF CENTERLINE, UP TO 48 FT AGL/2277 FT MSL. POLE 3116 FT FROM DER, 1022 FT RIGHT OF CENTERLINE, 101 FT AGL/2309 FT MSL. SIGN 3339 FT FROM DER, 278 FT LEFT OF CENTERLINE, UP TO 2286 FT MSL. COMMUNICATION TWR 4521 FT FROM DER, 704 FT RIGHT OF CENTERLINE, 2332 FT MSL. SIGN 1.3 NM FROM DER, 2649 FT LEFT OF CENTERLINE, 80 FT AGL/2384 FT MSL. POLE 1.5 NM FROM DER, 2801 FT LEFT OF CENTERLINE, 100 FT AGL/2444 FT MSL. POLE 1.6 NM FROM DER, 2832 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/2455 FT MSL. POLE, COMMUNICATION TWR BEGINNING 1.7 NM FROM DER, 2068 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/2463 FT MSL. POLE 1.7 NM FROM DER, 2845 FT LEFT OF CENTERLINE, 135 FT AGL/2469 FT MSL. TRANSMISSION TWR 2.1 NM FROM DER, 3453 FT LEFT OF CENTERLINE, 134 FT AGL/2490 FT MSL.

**FEDERAL AVIATION ADMINISTRATION
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<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
LAS VEGAS, NV	MC CARRAN INTL	17 AUGUST 2017	8

CONTROLLING OBSTACLES:

RWY 1L: 2243 FT MSL BLDG 360638.76N/1150918.65W.

RWY 19L, 19R: 3959 FT MSL AAO 355942.93N/1150103.62W.

RWY 26L: 2309 FT MSL POLE 360444.99N/1151050.66W (CLIMB GRADIENT), 2435 FT MSL POLE 360406.94N/1151156.34W (CLIMB-TO ALTITUDE, CEILING, VISIBILITY).

RWY 26R: 2332 FT MSL COMM TWR 360441.83N/1151107.77W (CLIMB GRADIENT), 2469 FT MSL POLE 360405.50N/1151219.33W (CLIMB-TO ALTITUDE), 2490 FT MSL T-L TWR 360400.59N/1151243.79W (CEILING, VISIBILITY).

OBSTACLE MANDATING ODP ROUTE DEVELOPEMENT: 11,900 FT MSL AAO 361618.00N/1154145.00W.

REMARKS:

FLIGHT INSPECTED BY:

JOEL F HAWKLEY

Digitally signed by
STEVEN A VARGAS
Jul 10, 2017

OFFICE SYMBOL:

FICO

DATE:

6/28/17

DEVELOPED BY:

Digitally signed by

JEFFREY ROBINSON **JEFFREY ROBINSON**
Apr 12, 2017

OFFICE SYMBOL:

AJV-5421

DATE:

03/22/2017

APPROVED BY:

Digitally signed by

JULIE MORGAN **STEVEN A VARGAS**
May 09, 2017

OFFICE SYMBOL:

AJV-5420

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:

ZLA, LAS APP CON, APT MGR

CHANGES - REASONS:

CHANGES:

1. CHANGED RWY NUMBERS 7L, 7R, 25L, 25R TO 8L, 8R, 26L, 26R, RESPECTIVELY.
2. CHANGED RWY 1L TAKEOFF MINIMUMS CLIMB GRADIENT FROM 264 FT PER NM TO 269 FT PER NM.
3. CHANGED RWY 19L TAKEOFF MINIMUMS FROM "300-1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 231 FT PER NM TO 2400" TO "STANDARD WITH MINIMUM CLIMB OF 256 FT PER NM TO 3400."
4. CHANGED RWY 19R TAKEOFF MINIMUMS FROM "STANDARD" TO "STANDARD WITH MINIMUM CLIMB OF 242 FT PER NM TO 3400."
5. CHANGED RWY 26L TAKEOFF MINIMUMS FROM "300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 209 FT PER NM TO 2400" TO "300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 214 FT PER NM TO 2400."
6. CHANGED RWY 26R TAKEOFF MINIMUMS NON-STD CEILING AND VIS FROM 300-1 1/2 TO 400-2 1/2.
7. CHANGED RWY 8L, 8R TEXTUAL DEPARUTRE PROCEDURE INITIAL CLIMB HEADING FROM 074.93 TO 078.93.
8. CHANGED RWY 19L, 19R TEXTUAL DEPARTURE PROCEDURE FROM "CLIMBING LEFT TURN HEADING 120..." TO "CLIMB HEADING 193.92 TO 2800, THEN CLIMBING LEFT TURN HEADING 120..."
9. CHANGED RWY 26L, 26R TEXTUAL DEPARTURE PROCEDURE INITIAL CLIMB HEADING FROM 254.95 TO 258.95.
10. UPDATED TAKEOFF OBSTACLE NOTES.
11. CHANGED RWY 19L CONTROLLING OBSTACLE FROM 2334 FT MSL BUILDING TO 3959 FT MSL AAO.
12. ADDED CONTROLLING OBSTACLE FOR RWY 19R, 3959 FT MSL AAO.
13. CHANGED RWY 26L CONTROLLING OBSTACLES FROM 2332 FT MSL TOWER TO 2309 FT MSL POLE (CLIMB GRADIENT), 2469 POLE (CLIMB-TO ALTITUDE), 2490 FT MSL T-L TWR (CEILING, VISIBILITY).
14. CHANGED RWY 26R CONTROLLING OBSTACLES FROM 2332 FT MSL COMM TWR (CLIMB GRADIENT), 2469 FT MSL POLE (CEILING, VISIBILITY, CLIMB-TO ALTITUDE) TO 2332 FT MSL COMM TWR (CLIMB GRADIENT), 2469 FT MSL POLE (CLIMB-TO ALTITUDE), 2490 FT MSL T-L TOWER (CEILING, VISIBILITY).
15. CHANGED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT FROM RWY 1L/R 3189 FT MSL MONUMENT TO 11,900 FT MSL AAO (ALL RUNWAYS).
16. VCOA NOT ESTABLISHED PER ATC REQUEST.

**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>
LAS VEGAS, NV	MC CARRAN INTL	17 AUGUST 2017	8

REASONS:

- 1, 7, 9. MAG VAR CHANGE FROM 15E TO 11E.
2. OEA REEVALUATED USING TARGETS; OBSTACLE MEASUREMENT METHODOLOGY YIELDED HIGHER CG.
- 3, 4, 8, 11, 12. 1:24K MAP STUDY IDENTIFIED NEW CONTROLLING OBSTACLE.
5. OBSTACLE IN ICA EXTENDED YIELDED HIGHER CEILING/VISIBILITY; HIGHER CG TO DUE TARGETS OBSTACLE MEASUREMENT METHODOLOGY.
6. OBSTACLE IN ICA EXTENDED YIELDED HIGHER CEILING/VISIBILITY;
10. OBSTACLES GROUPED USING AIS TOOLBOX OBSTACLE GROUPER FOR TARGETS 5.2.
- 13, 14, 15. OEAS REEVALUATED USING TARGETS.
16. HIGH TRAFFIC VOLUME; REQUIREMENT FOR PREDICTABLE AND REPEATABLE FLIGHT PATHS.



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM	TO			COURSE AND DISTANCE			ALTITUDE		MAP: 6.45 NM AFTER RACES INT/LAS 8.15 DME OR AT ALUND/LAS 1.70 DME FIX CLIMB TO 4000 THEN CLIMBING LEFT TURN TO 6000 ON HEADING 074 AND BLD R-270 TO BLD VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 330.00 INBOUND. FAS OBST: 2120 AAO 360258N/1150343W CHART CIRCLING ICON. FAC 438 FT RIGHT OF RWY 26L CL EXTENDED 3000 FT FROM THLD. FAC 563 FT LEFT OF RWY 26R CL EXTENDED 3000 FT FROM DSPLC THLD.						
LAS VORTAC	IRISH INT/LAS 19.10 DME			082.42 / 19.10			7100								
CRESO INT/BLD 19.82 DME	HARFE INT/BLD 8.00 DME			032.99 / 11.82 (BLD R-213)			7800								
HARFE INT/BLD 8.00 DME	BLD VORTAC			032.99 / 8.00			7100								
MEADS INT/BLD 20.70 DME (IAF)	IRISH INT/LAS 19.10 DME (NOPT)			225.82 / 15.52 (BLD R-046)			7100								
BLD VORTAC (IAF)	HOCKY INT/LAS 14.16 DME (NOPT)			338.34 / 3.20			5600								
IRISH INT/LAS 19.10 DME (IF/IAF)	HOCKY INT/LAS 14.16 DME			262.41 / 4.94 (LAS R-082)			5600								
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E IRISH, RT, 262.42 INBOUND, 7100 FT. IN LIEU OF PT (IAF) 3. FAC 262.41 FAF RACES INT/LAS 8.15 DME DIST FAF TO MAP 6.45 THLD 6.48 4. MIN. ALT IRISH 7100, HOCKY 5600, RACES 4500 8. MSA FROM: LAS VORTAC 030-120 6700, 120-210 8400, 210-300 13200, 300-030 10200															
										MAG VAR: 15E EPOCH YEAR: 1980					
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-26L	2720	3/4	651	2720	3/4	651	2720	1 5/8	651	2720	1 5/8	651			
S-26R	2720	3/4	653	2720	3/4	653	2720	1 5/8	653	2720	1 5/8	653			
CIRCLING	3020	1 1/4	839	3040	1 1/4	859	3100	2 3/4	919	3540	3	1359			
NOTES: CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MEADS VIA V562 NORTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BLD VORTAC AIRWAY RADIALS 332 CW 016. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-26L AND S-26R CAT D VISIBILITY 1/4 SM.															
CITY AND STATE LAS VEGAS, NV		ELEVATION: 2181		TDZE: 26L 2069		FACILITY IDENTIFIER: LAS		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 26L/R, AMDT 4 17 AUGUST 2017				SUP VOR RWY 25L/R			
		AIRPORT NAME:		26R 2067								AMDT 3A			
		MC CARRAN INTL										DATE 01/12/2012			



**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, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
HOCKY INT/LAS 14.16 DME	RACES INT/LAS 8.15 DME	262.41 / 6.01 (LAS R-082)	4500

QUALITY
18
CHECKED

CITY AND STATE

LAS VEGAS, NV

ELEVATION: 2181

TDZE: 26L 2069

AIRPORT NAME:

26R 2067

MC CARRAN INTL

FACILITY
IDENTIFIER:

LAS

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

VOR RWY 26L/R, AMDT 4

17 AUGUST 2017

SUP: VOR RWY 25L/R

AMDT: 3A

DATED: 01/12/2012

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: 4.51 NM AFTER EBBEE/I-JFK 6.07 DME/RADAR OR AT I-JFK 1.56 DME CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 4000 HEADING 100 AND V44 TO DPK VOR/DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 ON JFK VOR/DME R-062 TO DUFFY INT/JFK 14.79 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 258.09 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE DUFFY INT/JFK 14.79 DME, LT, 242.03 INBOUND. CHART FAS OBST: 208 HVAC 403530N/0734716W CHART VDP AT 3.05 DME* DISTANCE VDP TO THLD 1.49 NM. *LOC ONLY. CHART IN PLANVIEW: DUFFY INT/JFK 14.79 DME. CHART CIRCLING ICON.					
ZETAL INT/I-JFK 11.01 DME (IF)			EBBEE/I-JFK 6.07 DME/RADAR			044.76 / 4.94 (I-JFK)			1500								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ZETAL 3. FAC: <u>044.76</u> FAF: <u>EBBEE/I-JFK 6.07 DME/RADAR</u> DIST FAF TO MAP: <u>4.51</u> THLD: <u>4.51</u> 4. MIN. ALT: ZETAL 2000, EBBEE 1500 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: <u>894</u> 150 HAT: _____ - _____ 100 HAT: <u>906</u> GS ANT: <u>1005</u> 6. MIN GS INCPT: <u>1500</u> GS ALT AT: <u>EBBEE 1500</u> OM: _____ - _____ MM: _____ - _____ IM: <u>112</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>52.7</u> 8. MSA FROM: JFK VOR/DME 360-270 2000, 270-360 2900										MAG VAR: 14W		EPOCH YEAR: 2000					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: #		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 04R	212	1800	200	212	1800	200	212	1800	200	212	1800	200					
S-LOC 04R	540	2400	528	540	2400	528	540	5500	528	540	5500	528					
CIRCLING	640	1	627	640	1	627	640	1 3/4	627	660	2	647					
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D, RA 112, RVR 1200, HAT 100, DA 112 MSL. CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT III CAT A, B, C, D, RVR 600. (CONTINUED ON PAGE 2)																	
CITY AND STATE NEW YORK, NY				ELEVATION: 13 TDZE: 12 AIRPORT NAME: JOHN F KENNEDY INTL				FACILITY IDENTIFIER: I-JFK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 4R, AMDT 30; ILS RWY 4R (CAT II) , ILS RWY 4R (CAT III) 17 AUGUST 2017				SUP: AMDT: 29C DATED 12/13/2012			

QUALITY
 32
 CHECKED

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

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

NOTES, (CONT.):
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PLANVIEW NOTE: RADAR REQUIRED

QUALITY
32
CHECKED

CITY AND STATE NEW YORK, NY	ELEVATION: 13 TDZE: 12 AIRPORT NAME: JOHN F KENNEDY INTL	FACILITY IDENTIFIER: I-JFK	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 4R, AMDT 30; ILS RWY 4R (CAT II) , ILS RWY 4R (CAT III) 17 AUGUST 2017	SUP:
				AMDT: 29C
				DATED: 12/13/2012

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: RW04L (DO NOT EXCEED 210 KIAS UNTIL BARJR) CLIMB TO 3000 DIRECT BARJR AND TRACK 068.37 TO DUFFY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, LT, 244.00 INBOUND. FAS OBST: 214 AAO 403450N/0734959W DISTANCE TO THLD FROM 219 HAT: 0.51 NM. CHART VDP AT 1.23 NM TO RW04L* *LNAV ONLY. WAAS CHANNEL # 77519 REFERENCE PATH ID: W04A CHART CIRCLING ICON. LTP HAE: -28.3 M												
REPRE (IF)				KRSTL (TF) (FB) (RNP 1.00)				044.68 / 6.50				1500														
KRSTL (FAF)				RW04L (MAP) (TF) (FO) (RNP 0.30)				044.73 / 4.49																		
RW04L (MAP)				232 MSL (CA)				044.73																		
232 MSL				BARJR (DF) (FB) (RNP 1.00)																						
BARJR				DUFFY (TF) (FO) (RNP 1.00)				068.37 / 12.76				3000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT REPRE _____ 3. FAC: 044.73 FAF: KRSTL DIST FAF TO MAP: 4.49 THLD: 4.49 4. MIN. ALT: REPRE 2000, KRSTL 1500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1500 GS ALT AT: KRSTL 1500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 57.2 34:1 IS CLEAR 8. MSA FROM: RW04L 2900																	MAG VAR: 14W					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	232	4000	219	232	4000	219	232	4000	219	232	4000	219														
LNAV/VNAV DA	329	5000	316	329	5000	316	329	5000	316	329	5000	316														
LNAV MDA	480	5500	467	480	5500	467	480	1 3/8	467	480	1 3/8	467														
CIRCLING	640	1	627	640	1	627	640	1 3/4	627	660	2	647														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12C (11F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS. (CONTINUED ON PAGE 2)																										
CITY AND STATE NEW YORK, NY				ELEVATION: 13 TDZE: 13 AIRPORT NAME: JOHN F KENNEDY INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 4L, AMDT 3 17 AUGUST 2017					SUP: AMDT: 2A DATED 02/04/2016											

QUALITY
 25
 CHECKED

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

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

NOTES, (CONT.):

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

NEW YORK, NY

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

JOHN F KENNEDY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 4L, AMDT 3

17 AUGUST 2017

SUP:

AMDT: **2A**

DATED: **02/04/2016**

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KJFK
RUNWAY	RW04L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	403723.1815N
LTP/FTP LONGITUDE	0734705.0525W
LTP/FTP ELLIPSOIDAL HEIGHT	-00283
FPAP LATITUDE	403901.8335N
FPAP LONGITUDE	0734547.9595W
THRESHOLD CROSSING HEIGHT (TCH)	00057.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

656DDF35

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00038
FPAP ORTHOMETRIC HEIGHT	+00038

QUALITY
25
CHECKED

CITY AND STATE

NEW YORK, NY

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

JOHN F KENNEDY INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 4L, AMDT 3

17 AUGUST 2017

SUP:

AMDT:

2A

DATED:

02/04/2016

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES											MISSED APPROACH								
FROM		TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW04R (DO NOT EXCEED 210 KIAS UNTIL GAALO) CLIMB TO 4000 DIRECT GAALO AND ON TRACK 083.67 TO HIRBO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 080.00 INBOUND. CHART FAS OBST: 210 BLDG 403529N/0734715W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.42 NM TO RW04R* *LNAV ONLY. WAAS CHANNEL # 81819 REFERENCE PATH ID: W04B CHART CIRCLING ICON. LTP HAE: -28.4 M								
VERRU (IF)		EBBEE (TF) (FB) (RNP 1.00)			044.68 / 5.99				1500										
EBBEE (FAF)		RW04R (MAP) (TF) (FO) (RNP 0.30)			044.73 / 4.51														
RW04R (MAP)		212 MSL (CA)			044.73														
212 MSL		GAALO (DF) (FB) (RNP 1.00)							4000										
GAALO		HIRBO (TF) (FO) (RNP 1.00)			083.67 / 21.05														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT VERRU 3. FAC: 044.73 FAF: EBBEE DIST FAF TO MAP: 4.51 THLD: 4.51 4. MIN. ALT: VERRU 2000, EBBEE 1500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1500 GS ALT AT: EBBEE 1500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.7 34:1 IS CLEAR 8. MSA FROM: RW04R 2900																MAG VAR: 14W		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	212	2400	200	212	2400	200	212	2400	200	212	2400	200							
LNAV/VNAV DA	369	4000	357	369	4000	357	369	4000	357	369	4000	357							
LNAV MDA	520	2400	508	520	2400	508	520	5500	508	520	5500	508							
CIRCLING	640	1	627	640	1	627	640	1 3/4	627	660	2	647							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 12C (11F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. 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: 13			TDZE: 12			FACILITY IDENTIFIER:			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:					
NEW YORK, NY		AIRPORT NAME:			JOHN F KENNEDY INTL			RNAV			RNAV (GPS) Y RWY 4R, AMDT 2			AMDT: 1D					
											17 AUGUST 2017			DATED 12/13/2012					

QUALITY
 25
 CHECKED

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

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

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 6000 AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM.



CITY AND STATE NEW YORK, NY	ELEVATION: 13 AIRPORT NAME: JOHN F KENNEDY INTL	TDZE: 12	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 4R, AMDT 2 17 AUGUST 2017	SUP:
					AMDT: 1D
					DATED: 12/13/2012

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KJFK
RUNWAY	RW04R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04B
LTP/FTP LATITUDE	403731.5320N
LTP/FTP LONGITUDE	0734613.2500W
LTP/FTP ELLIPSOIDAL HEIGHT	-00284
FPAP LATITUDE	403848.1430N
FPAP LONGITUDE	0734513.3835W
THRESHOLD CROSSING HEIGHT (TCH)	00052.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

9324F9EA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00036
FPAP ORTHOMETRIC HEIGHT	+00036

QUALITY
25
CHECKED

CITY AND STATE

NEW YORK, NY

ELEVATION: 13

TDZE: 12

AIRPORT NAME:

JOHN F KENNEDY INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 4R, AMDT 2

17 AUGUST 2017

SUP:

AMDT:

1D

DATED:

12/13/2012

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 3000 DIRECT BARJR AND TRACK 068.37 TO DUFFY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, LT, 244.00 INBOUND. DISTANCE TO THLD FROM 318 HAT: 0.82 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 69.6 MSL (DO NOT CHART)											
REPRE (IF)			KRSTL (TF) (FB) (RNP 1.00)			044.68 / 6.50			1500														
KRSTL (FAF)			RW04L (MAP) (TF) (FO) (RNP 0.30)			044.73 / 4.49																	
RW04L (MAP)			331 MSL (CA)			044.73																	
331 MSL			BARJR (DF) (FB) (RNP 1.00)																				
BARJR			DUFFY (TF) (FO) (RNP 1.00)			068.37 / 12.76			3000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT REPRE 3. FAC: <u>044.73</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: REPRE 2000, KRSTL 1500 5. DIST TO THLD FROM OM: <u>4.49</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1500</u> GS ALT AT: KRSTL 1500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>57.2</u> # <u>34:1</u> IS CLEAR 8. MSA FROM: RW04L 2900																		MAG VAR: 14W 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								
AUTHORIZATION REQUIRED																							
RNP 0.30 DA	331	5000	318	331	5000	318	331	5000	318	331	5000	318											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																							
CITY AND STATE NEW YORK, NY				ELEVATION: 13 TDZE: 13 AIRPORT NAME: JOHN F KENNEDY INTL				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 4L, AMDT 2 17 AUGUST 2017				SUP:							
																AMDT: 1A							
																DATED 02/04/2016							

QUALITY
25
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES												MISSED APPROACH											
FROM			TO			COURSE AND DISTANCE			ALTITUDE			RNP: DA (DO NOT EXCEED 210 KIAS UNTIL GAALO) CLIMB TO 4000 DIRECT GAALO AND TRACK 083.67 TO HIRBO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 080.00 INBOUND. DISTANCE TO THLD FROM 346 HAT: 0.92 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 64.5 MSL (DO NOT CHART)											
VERRU (IF)			EBBEE (TF) (FB) (RNP 1.00)			044.68 / 5.99			1500														
EBBEE (FAF)			RW04R (MAP) (TF) (FO) (RNP 0.30)			044.73 / 4.51																	
RW04R (MAP)			358 MSL (CA)			044.73																	
358 MSL			GAALO (DF) (FB) (RNP 1.00)																				
GAALO			HIRBO (TF) (FO) (RNP 1.00)			083.67 / 21.05			4000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT VERRU 3. FAC: <u>044.73</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: VERRU 2000, EBBEE 1500 5. DIST TO THLD FROM OM: <u>4.51</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1500</u> GS ALT AT: EBBEE 1500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>52.7</u> # <u>34:1</u> IS CLEAR 8. MSA FROM: RW04R 2900																		MAG VAR: 14W 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								
AUTHORIZATION REQUIRED																							
RNP 0.30 DA	358	3000	346	358	3000	346	358	3000	346	358	3000	346											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART PLANVIEW NOTE: GPS REQUIRED.																							
CITY AND STATE NEW YORK, NY				ELEVATION: 13 TDZE: 12 AIRPORT NAME: JOHN F KENNEDY INTL				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 4R, AMDT 1 17 AUGUST 2017				SUP:							
																AMDT: ORIG-B							
																DATED 12/13/2012							

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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LNAV: RW07					
EFAHU		KUHEK (TF) (FB) (RNP 2.00)		242.19 / 40.46				2000		CLIMB TO 1700 DIRECT TOZTU AND HOLD.					
WOZTI		NOFKE (TF) (FB) (RNP 2.00)		124.02 / 17.40				2000							
NOFKE (IAF)		OGEVE (NOPT) (TF) (FB) (RNP 1.00)		122.62 / 5.08				1700		ADDITIONAL FLIGHT DATA: HOLD NE, LT, 246.23 INBOUND. CHART CIRCLING ICON. UFUZO WP TO RW07: 3.09/54. FINAL SEGMENT (TF).					
KUHEK (IAF)		OGEVE (NOPT) (TF) (FB) (RNP 1.00)		154.47 / 5.00				1700							
OGEVE (IF/IAF) (SEE FORM 8260-10)		UFUZO (TF) (FB) (RNP 1.00)		066.19 / 5.00				1700							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. HOLD SW OGEVE, RT, 066.19 INBOUND, 1700 FT. IN LIEU OF PT (IAF)															
3. FAC: 066.20 FAF: UFUZO DIST FAF TO MAP: 5.00 THLD: 5.00															
4. MIN. ALT: OGEVE 1700, UFUZO 1700															
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: RW07 1300															
MAG VAR: 10E 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	460	1	453	460	1	453	460	1 3/8	453	460	1 3/8	453			
CIRCLING	520	1	513	520	1	513	520	1 1/2	513	560	2	553			
NOTES: CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, PROCEDURE NA. @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: NO CONTROLLED AIRSPACE BELOW 5500.															
CITY AND STATE MAJURO ATOLL, RM		ELEVATION: 7 TDZE: 7 AIRPORT NAME: MARSHALL ISLANDS INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-D 17 AUGUST 2017						SUP: AMDT: ORIG-C DATED 04/05/2012			



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
UFUZO (FAF)	RW07 (MAP) (TF) (FO) (RNP 0.30)	066.20 / 5.00	
RW07 (MAP)	407 MSL (CA)	066.20	
407 MSL	TOZTU (DF) (FO) (RNP 1.00)		1700

QUALITY
29
CHECKED

CITY AND STATE
MAJURO ATOLL, RM

ELEVATION: 7 TDZE: 7
AIRPORT NAME:
MARSHALL ISLANDS INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 7, ORIG-D
17 AUGUST 2017

SUP:
AMDT: ORIG-C
DATED: 04/05/2012

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: RW25 CLIMB TO 1700 DIRECT OGEVE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 066.19 INBOUND. CHART FAS OBST: 208 208' SHIP 070345N/1711722W CHART CIRCLING ICON. IMUFO WP TO RW25: 3.00/54.									
WOZTI	ZIVZU (TF) (FB) (RNP 2.00)			088.87 / 36.31			2000												
EFAHU	NUGWO (TF) (FB) (RNP 2.00)			223.49 / 15.35			2000												
NUGWO (IAF)	TOZTU (NOPT) (TF) (FB) (RNP 1.00)			224.11 / 5.14			1700												
ZIVZU (IAF)	TOZTU (NOPT) (TF) (FB) (RNP 1.00)			157.95 / 5.00			1700												
TOZTU (IF/IAF) (SEE FORM 8260-10)	IMUFO (TF) (FB) (RNP 1.00)			246.23 / 4.85			1700												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE TOZTU, LT, 246.23 INBOUND, 1700 FT. IN LIEU OF PT (IAF) 3. FAC: 246.22 FAF: IMUFO DIST FAF TO MAP: 5.15 THLD: 5.15 4. MIN. ALT: TOZTU 1700, IMUFO 1700 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: RW25 1300																MAG VAR: 10E		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	460	1	453	460	1	453	460	1 3/8	453	460	1 3/8	453							
CIRCLING	520	1	513	520	1	513	520	1 1/2	513	560	2	553							
NOTES: CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, PROCEDURE NA. CHART NOTE: RWY 25 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: NO CONTROLLED AIRSPACE BELOW 5500.																			
CITY AND STATE		ELEVATION: 7 TDZE: 7		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
MAJURO ATOLL, RM		AIRPORT NAME:		MARSHALL ISLANDS INTL		RNAV (GPS) RWY 25, ORIG-D 17 AUGUST 2017				AMDT: ORIG-C									
										DATED 04/05/2012									



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
IMUFO (FAF)	RW25 (MAP) (TF) (FO) (RNP 0.30)	246.22 / 5.15	
RW25 (MAP)	407 MSL (CA)	246.22	
407 MSL	OGEVE (DF) (FO) (RNP 1.00)		1700

QUALITY
29
CHECKED

CITY AND STATE
MAJURO ATOLL, RM

ELEVATION: 7 TDZE: 7
AIRPORT NAME:
MARSHALL ISLANDS INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 25, ORIG-D
17 AUGUST 2017

SUP:
AMDT: ORIG-C
DATED: 04/05/2012

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 2100 DIRECT JAPTU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 209.48 INBOUND. CHART FAS OBST: 447 TOWER 342249N/0800813W DISTANCE TO THLD FROM 250 HAT: 0.68 NM. WAAS CHANNEL # 87140 REFERENCE PATH ID: W03A CHART CIRCLING ICON. LTP HAE: 72.8 M *LNAV ONLY.									
OLawe (IF/IAF)		ICEJO (TF) (FB) (RNP 1.00)			029.36 / 8.10			1900											
ICEJO (FAF)		WALIR/1.50 NM TO RW03 (TF) (FB) (RNP 0.30)			029.40 / 3.27														
WALIR/1.50 NM TO RW03		RW03 (MAP) (TF) (FO) (RNP 0.30)			029.40 / 1.50														
RW03 (MAP)		599 MSL (CA)			029.40			2100											
599 MSL		JAPTU (DF) (FO) (RNP 1.00)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW OLawe, RT, 029.36 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 029.40 FAF: ICEJO DIST FAF TO MAP: 4.77 THLD: 4.77 4. MIN. ALT: OLawe 2000, ICEJO 1900, WALIR/1.50 NM TO RW03 860* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: ICEJO 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 7W		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	599	1	250	599	1	250	599	1	250		NA								
LNAV/VNAV DA	599	1	250	599	1	250	599	1	250		NA								
LNAV MDA	700	1	351	700	1	351	700	1	351		NA								
CIRCLING	800	1	436	840	1	476	960	1 1/2	596		NA								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9C (15F) 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}).																			
CITY AND STATE		ELEVATION: 364 TDZE: 349			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:							
HARTSVILLE, SC		AIRPORT NAME:			HARTSVILLE RGNL		RNAV (GPS) RWY 3, AMDT 1					AMDT: ORIG-C							
							17 AUGUST 2017					DATED 08/18/2016							



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

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

TAA

	FROM	TO	ALT
1.	299/30 CW 119/30 (NOPT) 299/15 CW 119/15	299/15 CW 119/15 OLawe (IF/IAF) (FB)	3100 2000
2.	119/30 CW 299/30 119/15 CW 299/15	119/15 CW 299/15 OLawe (IF/IAF) (FO)	2200 2000

QUALITY
23
CHECKED

CITY AND STATE HARTSVILLE, SC	ELEVATION: 364 TDZE: 349 AIRPORT NAME: HARTSVILLE RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-C
				DATED: 08/18/2016

**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	KHVS
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	342348.2065N
LTP/FTP LONGITUDE	0800720.5925W
LTP/FTP ELLIPSOIDAL HEIGHT	+00728
FPAP LATITUDE	342510.7110N
FPAP LONGITUDE	0800639.5165W
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	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 254512DE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01043
FPAP ORTHOMETRIC HEIGHT	+01043

QUALITY
23
CHECKED

CITY AND STATE HARTSVILLE, SC	ELEVATION: 364 AIRPORT NAME: HARTSVILLE RGNL	TDZE: 349 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-C
				DATED: 08/18/2016

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: RW21 LNAV: RW21												
JAPTU (IF/IAF)				POROY (TF) (FB) (RNP 1.00)				209.48 / 8.10				2000		CLIMB TO 2000 DIRECT OLAWÉ AND HOLD.												
POROY (FAF)				JCOLE/2.00 NM TO RW21 (TF) (FB) (RNP 0.30)				209.44 / 3.01																		
JCOLE/2.00 NM TO RW21				RW21 (MAP) (TF) (FO) (RNP 0.30)				209.44 / 2.00																		
RW21 (MAP)				760 MSL (CA)				209.44				2000														
760 MSL				OLAWÉ (DF) (FO) (RNP 1.00)										ADDITIONAL FLIGHT DATA: HOLD SW, RT, 029.36 INBOUND. CHART FAS OBST: 495 TREE 342510N/0800635W CHART FAS OBST: 530 TANK 342553N/0800544W WAAS CHANNEL # 69640 REFERENCE PATH ID: W21A CHART CIRCLING ICON. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. LTP HAE: 79.3 M												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																										
2. HOLD NE JAPTU, RT, 209.48 INBOUND, 2100 FT. IN LIEU OF PT (IAF)																										
3. FAC: 209.44 FAF: POROY DIST FAF TO MAP: 5.01 THLD: 5.01																										
4. MIN. ALT: JAPTU 2100, POROY 2000, JCOLE/2.00 NM TO RW21 1040																										
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: 7W 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	760	1	396	760	1	396	760	1 1/8	396		NA															
LNAV MDA	780	1	416	780	1	416	780	1 1/8	416		NA															
CIRCLING	800	1	436	840	1	476	960	1 1/2	596		NA															
NOTES: CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA.																										
CITY AND STATE HARTSVILLE, SC		ELEVATION: 364 TDZE: 364 AIRPORT NAME: HARTSVILLE RGNL					FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 17 AUGUST 2017					SUP: AMDT: ORIG-C DATED 08/18/2016												

QUALITY
32
CHECKED

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

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

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	119/30 CW 299/30 (NOPT) 119/15 CW 299/15	119/15 CW 299/15 JAPTU (IF/IAF) (FB)	2300 2100
2.	299/30 CW 119/30 299/15 CW 119/15	299/15 CW 119/15 JAPTU (IF/IAF) (FO)	2200 2100

QUALITY
23
CHECKED

CITY AND STATE HARTSVILLE, SC	ELEVATION: 364 TDZE: 364 AIRPORT NAME: HARTSVILLE RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-C
				DATED: 08/18/2016

**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	KHVS
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	342433.9245N
LTP/FTP LONGITUDE	0800657.8350W
LTP/FTP ELLIPSOIDAL HEIGHT	+00793
FPAP LATITUDE	342311.4165N
FPAP LONGITUDE	0800738.8955W
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	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 398DFCA5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01108
FPAP ORTHOMETRIC HEIGHT	+01108

QUALITY
4
CHECKED

CITY AND STATE HARTSVILLE, SC	ELEVATION: 364 AIRPORT NAME: HARTSVILLE RGNL	TDZE: 364 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-C
				DATED: 08/18/2016

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

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

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
HARTSVILLE, SC	HARTSVILLE RGNL	08/17/2017	1

TAKEOFF MINIMUMS:
RWY 3, 21: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 03, BLDGS, TANK BEGINNING 5 FT FROM DER, 336 FT RIGHT OF CENTERLINE, UP TO 368 FT MSL. BUSHES, TREE BEGINNING 31 FT FROM DER, 127 FT LEFT OF CENTERLINE, UP TO 384 FT MSL. POLE, TANK, BLDG BEGINNING 68 FT FROM DER, 380 FT RIGHT OF CENTERLINE, UP TO 385 FT MSL. BUSHES BEGINNING 381 FT FROM DER, 501 FT LEFT OF CENTERLINE, UP TO 385 FT MSL. TREES BEGINNING 410 FT FROM DER, 507 FT RIGHT OF CENTERLINE, UP TO 430 FT MSL. TREES, POLES, BLDGS BEGINNING 541 FT FROM DER, 244 FT LEFT OF CENTERLINE, UP TO 444 FT MSL. TREES, POLES BEGINNING 541 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 432 FT MSL. TREE 786 FT FROM DER, 632 FT LEFT OF CENTERLINE, 462 FT MSL. TREES BEGINNING 900 FT FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 467 FT MSL. TREES, POLES BEGINNING 1042 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 471 FT MSL. TREES, POLES BEGINNING 1402 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 436 FT MSL. TREES BEGINNING 2040 FT FROM DER, 616 FT RIGHT OF CENTERLINE, UP TO 437 FT MSL. TREES BEGINNING 2119 FT FROM DER, 6 FT RIGHT OF CENTERLINE, UP TO 440 FT MSL. TREES BEGINNING 2251 FT FROM DER, 103 FT RIGHT OF CENTERLINE, UP TO 443 FT MSL. TREES BEGINNING 2355 FT FROM DER, 105 FT RIGHT OF CENTERLINE, UP TO 445 FT MSL. TREES BEGINNING 2363 FT FROM DER, 47 FT RIGHT OF CENTERLINE, UP TO 450 FT MSL. TREES BEGINNING 2455 FT FROM DER, 97 FT RIGHT OF CENTERLINE, UP TO 453 FT MSL. TREES BEGINNING 2534 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 454 FT MSL. TREES, POLE BEGINNING 2662 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 460 FT MSL. TREES, POLES BEGINNING 2756 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 473 FT MSL. TREES BEGINNING 3076 FT FROM DER, 655 FT LEFT OF CENTERLINE, UP TO 475 FT MSL. TREES, POLE BEGINNING 3102 FT FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 478 FT MSL. TREES BEGINNING 3200 FT FROM DER, 27 FT RIGHT OF CENTERLINE, UP TO 465 FT MSL. TREES BEGINNING 3456 FT FROM DER, 758 FT RIGHT OF CENTERLINE, UP TO 466 FT MSL. TREES BEGINNING 3505 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 480 FT MSL. TREES BEGINNING 3532 FT FROM DER, 652 FT RIGHT OF CENTERLINE, UP TO 469 FT MSL. TREES BEGINNING 3580 FT FROM DER, 197 FT RIGHT OF CENTERLINE, UP TO 471 FT MSL. TREES BEGINNING 3619 FT FROM DER, 490 FT RIGHT OF CENTERLINE, UP TO 473 FT MSL. TREES BEGINNING 3625 FT FROM DER, 103 FT RIGHT OF CENTERLINE, UP TO 480 FT MSL. TREES BEGINNING 3720 FT FROM DER, 208 FT RIGHT OF CENTERLINE, UP TO 487 FT MSL. TREES BEGINNING 3809 FT FROM DER, 117 FT RIGHT OF CENTERLINE, UP TO 489 FT MSL. TREES BEGINNING 4023 FT FROM DER, 204 FT RIGHT OF CENTERLINE, UP TO 493 FT MSL. TREES BEGINNING 4139 FT FROM DER, 251 FT RIGHT OF CENTERLINE, UP TO 495 FT MSL. TREES, TRANSMISSION TWR BEGINNING 4249 FT FROM DER, 55 FT LEFT OF CENTERLINE, UP TO 485 FT MSL.

NOTE: RWY 21, TREES BEGINNING 21 FT FROM DER, 459 FT LEFT OF CENTERLINE, UP TO 402 FT MSL. BLDGS BEGINNING 95 FT FROM DER, 440 FT RIGHT OF CENTERLINE, UP TO 360 FT MSL. POLE, BLDG, TREE BEGINNING 263 FT FROM DER, 410 FT RIGHT OF CENTERLINE, UP TO 365 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY:
JEFFREY ECKMAN

Digitally signed by
STEVEN A VARGAS
Jul 11, 2017

OFFICE SYMBOL:
FICO

DATE:
06/29/2017

DEVELOPED BY:
DION LANCIA (WILLIAM HANBY)

Digitally signed by
STEVEN A VARGAS
Jul 11, 2017

OFFICE SYMBOL:
AJV-5423

DATE:
03/27/2017

APPROVED BY:
JULIE MORGAN

Digitally signed by
STEVEN A VARGAS
Jul 11, 2017

OFFICE SYMBOL:
AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

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

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Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
HARTSVILLE, SC	HARTSVILLE RGNL	08/17/2017	1

COORDINATED WITH:

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

OTHER:

CHANGES - REASONS:

CHANGES: 1. UPDATED TAKEOFF OBSTACLE NOTES.

REASONS: 1. LOW CLOSE-IN OBSTACLE DATA BASE UPDATED FROM ANALPV SURVEY.

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: SHOYU/CTF VOR/DME 16.45 DME					
CHART INT/FLO 30.40 DME		CTF VOR/DME			360.00 / 34.29 (CTF R-180)			2200		CLIMBING RIGHT TURN TO 2200 DIRECT CTF VOR/DME AND HOLD.					
CTF VOR/DME (IF/IAF)		TIARA/CTF 6.50 DME			155.45 / 6.50 (CTF R-155)			2200							
TIARA/CTF VOR/DME 6.50 DME		CHEEP/CTF VOR/DME 12.50 DME			155.45 / 6.00 (CTF R-155)			2100							
										ADDITIONAL FLIGHT DATA: HOLD NW, RT, 155.45 INBOUND, 2200. FAS OBST: 610 AAO 342752N/0800719W FAC CROSSES INTERSECTION OF RWYS 3 AND 21. CHART CIRCLING ICON. CHART PLANVIEW NOTE: DME REQUIRED.					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 3W EPOCH YEAR:1965					
2. HOLD NW CTF VOR/DME, RT, 155.45 INBOUND, 2200 FT. IN LIEU OF PT (IAF)															
3. FAC 155.45 FAF CHEEP/CTF VOR/DME 12.50 DME DIST FAF TO MAP _____ THLD _____															
4. MIN. ALT CTF VOR/DME 2200, TIARA 2200, CHEEP 2100															
8. MSA FROM: CTF VOR/DME 2300															
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	860	1	496	860	1	496	960	1 1/2	596		NA				
NOTES: CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON CTF VOR/DME AIRWAY RADIALS 243 CW 048.															
CITY AND STATE HARTSVILLE, SC		ELEVATION: 364 AIRPORT NAME: HARTSVILLE RGNL		TDZE:		FACILITY IDENTIFIER: CTF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, ORIG 17 AUGUST 2017				SUP AMDT 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: 4.80 NM AFTER BEVET/I-MYR 6.60 DME/RADAR OR AT I-MYR 1.80 DME						
CRE VORTAC		UXDEP INT/I-MYR 12.64 DME/RADAR		287.98 / 13.00				2000		CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 235.00 AND CRE VORTAC R-234 TO PLANN/24.01 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA (DO NOT CHART): CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT HYW NDB AND HOLD. (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, RT, 053.52 INBOUND. CHART FAS OBST: 134 TREE 334220N/0785611W CHART: 191 TOWER 334418N/0785707W CHART VDP AT 2.83 DME* DISTANCE VDP TO THLD 1.04 NM. *LOC ONLY. CHART CIRCLING ICON. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW HYW NDB, LT, 027.70 INBOUND.						
UXDEP INT/I-MYR 12.64 DME/RADAR (IF/IAF)		BEVET/I-MYR 6.60 DME/RADAR		177.21 / 6.04 (I-MYR)				1600								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 9W EPOCH YEAR: 2020						
2. HOLD N UXDEP, RT, 177.21 INBOUND, 2000 FT. IN LIEU OF PT (IAF)																
3. FAC: 177.21 FAF: BEVET/I-MYR 6.60 DME/RADAR DIST FAF TO MAP: 4.80 THLD: 4.80																
4. MIN. ALT: UXDEP 2000, BEVET 1600, JOKIX/I-MYR 4.30 DME/RADAR 860*																
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: 1956 100 HAT: 1002 GS ANT: 933																
6. MIN GS INCPT: 1600 GS ALT AT: BEVET 1600 OM: - MM: - IM: -																
7. GS ANGLE: 3.00 TCH: 48.4																
8. MSA FROM: CRE VORTAC 2100																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @					
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 18**	223	2400	200	223	2400	200	223	2400	200	223	2400	200	223	2400	200	
S-LOC 18	400	2400	377	400	2400	377	400	3500	377	400	3500	377	400	3500	377	
CIRCLING	560	1	535	560	1	535	740	2	715	740	2 1/4	715	740	2 1/2	715	
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 18: CAT A, B, C, D, RA 156, RVR 1400, HAT 150, DA 173 MSL. SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 18: CAT A, B, C, D, RA 101, RVR 1200, HAT 100, DA 123 MSL. (CONTINUED ON PAGE 2)																
CITY AND STATE MYRTLE BEACH, SC		ELEVATION: 25 TDZE: 23 AIRPORT NAME: MYRTLE BEACH INTL		FACILITY IDENTIFIER: I-MYR		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 18, AMDT 5; ILS RWY 18 (SA CAT I), ILS RWY 18 (SA CAT II) 17 AUGUST 2017						SUP: AMDT: 4 DATED 02/04/2016				

ILS - STANDARD

INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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

NOTES, (CONT.):

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

CHART NOTE: DME 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 NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 18 CAT E VISIBILITY TO RVR 4000 AND S-LOC 18 CATS

C/D/E VISIBILITY TO RVR 5500.

QUALITY
19
CHECKED

CITY AND STATE

MYRTLE BEACH, SC

ELEVATION: 25

TDZE: 23

AIRPORT NAME:

MYRTLE BEACH INTL

FACILITY
IDENTIFIER:

I-MYR

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 18, AMDT 5; ILS RWY 18 (SA CAT I), ILS
RWY 18 (SA CAT II)

17 AUGUST 2017

SUP:

AMDT: 4

DATED: 02/04/2016

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		LNAV: RW09 CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 4600 DIRECT BOYVA AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1867 TREE 362849N/0822648W 1965 AAO 362745N/0823142W CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES CHART CIRCLING ICON.								
BOYVA (IF/IAF)		CODAM (TF) (FB) (RNP 1.00)			095.87 / 9.22				3400										
CODAM (FAF)		RW09 (MAP) (TF) (FO) (RNP 0.30)			095.98 / 5.78														
RW09 (MAP)		2000 MSL (CA)			095.98				2000										
2000 MSL		BOYVA (DF) (FO) (RNP 1.00)							4600										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W BOYVA, RT, 095.87 INBOUND, 4600 FT. IN LIEU OF PT (IAF) 3. FAC: 095.98 FAF: CODAM DIST FAF TO MAP: 5.78 THLD: 5.78 4. MIN. ALT: BOYVA 4600, CODAM 3400 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: 7W		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @										
CATEGORY =====>		A			B			C			D			E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LNAV MDA	2120	1	601	2120	1	601	2120	1 3/4	601	2120	1 3/4	601							
CIRCLING	2120	1	601	2180	1	661	2300	2 1/4	781	2500	3	981							
NOTES: CHART NOTE: CIRCLING NA NW OF RWYS 9 AND 23. CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: STRAIGHT-IN RWY 9 NA AT NIGHT, CIRCLING RWY 9 NA AT NIGHT.																			
CITY AND STATE BRISTOL/JOHNSON/KINGSPORT, TN		ELEVATION: 1519 TDZE: 1519 AIRPORT NAME: TRI-CITIES			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 1 17 AUGUST 2017					SUP:							
												AMDT: ORIG-A							
												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.

TAA

	FROM	TO	ALT
1.	006/30 CW 186/30 (NOPT) 006/13 CW 186/13	006/13 CW 186/13 BOYVA (IF/IAF) (FB)	6400 4600
2.	186/30 CW 006/30 186/13 CW 006/13	186/13 CW 006/13 BOYVA (IAF) (FO)	7100 4600

QUALITY
24
CHECKED

CITY AND STATE BRISTOL/JOHNSON/KINGSPORT, TN	ELEVATION: 1519 TDZE: 1519 AIRPORT NAME: TRI-CITIES	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				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: RW27 CLIMB TO 2000 THEN CLIMBING LEFT TURN 3600 DIRECT HOSEM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 049.46 INBOUND. CHART FAS OBST: 1759 T-L TWR 362902N/0822043W CHART 1787 TREE 362850N/0822033W. DISTANCE TO THLD FROM 270 HAT: 0.71 NM. CHART VDP AT 1.56 NM TO RW27* *LNAV ONLY. WAAS CHANNEL # 63140 REFERENCE PATH ID: W27A CHART CIRCLING ICON. LTP HAE: 428.2 M						
CAKMA		KEPDE (TF) (FB) (RNP 2.00)			207.04 / 10.00			6500								
CAKOD		KEPDE (TF) (FB) (RNP 2.00)			322.09 / 10.00			6500								
KEPDE (IAF)		CITAM (TF) (FB) (RNP 1.00)			262.12 / 5.00			4900								
CITAM (IF)		FAVKA (TF) (FB) (RNP 1.00)			262.06 / 5.00			3400								
FAVKA (FAF)		TRIES/2.60 NM TO RW27 (TF) (FB) (RNP 0.30)			276.11 / 3.17											
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT CITAM 3. FAC: <u>276.11</u> FAF: <u>FAVKA</u> DIST FAF TO MAP: <u>5.77</u> THLD: <u>5.77</u> 4. MIN. ALT: <u>CITAM 4900, FAVKA 3400, TRIES/2.60 NM TO RW27 2380*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>3400</u> GS ALT AT: <u>FAVKA 3400</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW27 7500</u>																
											MAG VAR: 7W			EPOCH YEAR: 2020		
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @						
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1788	7/8	270	1788	7/8	270	1788	7/8	270	1788	7/8	270				
LNAV/VNAV DA	2034	1 3/4	516	2034	1 3/4	516	2034	1 3/4	516	2034	1 3/4	516				
LNAV MDA	2020	1	502	2020	1	502	2020	1 3/8	502	2020	1 3/8	502				
CIRCLING	2120	1	601	2180	1	661	2300	2 1/4	781	2500	3	981				
NOTES: CHART NOTE: CIRCLING TO RWY 9 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 54C (130F). CHART NOTE: CIRCLING NA NW OF RWY 9-23. CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (CONTINUED ON PAGE 2)																
CITY AND STATE				ELEVATION: 1519 TDZE: 1518			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:		
BRISTOL/JOHNSON/KINGSPORT, TN				AIRPORT NAME: TRI-CITIES					RNAV (GPS) RWY 27, AMDT 1					AMDT: ORIG		
									17 AUGUST 2017					DATED 01/10/2004		



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

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

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
TRIES/2.60 NM TO RW27	RW27 (MAP) (TF) (FO) (RNP 0.30)	276.11 / 2.60	
RW27 (MAP)	2000 MSL (CA)	276.11	2000
2000 MSL	HOSEM (DF) (FO) (RNP 1.00)		3600

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

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

QUALITY
50
CHECKED

CITY AND STATE

BRISTOL/JOHNSON/KINGSPORT, TN

ELEVATION: 1519

TDZE: 1518

AIRPORT NAME:

TRI-CITIES

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 27, AMDT 1

17 AUGUST 2017

SUP:

AMDT:

ORIG

DATED:

01/10/2004

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.			
TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW17 CLIMB TO 7000 DIRECT XANZI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD S, RT, 354.69 INBOUND. CHART FAS OBST: 2544 TREE 352705N/1001236W CHART CIRCLING ICON. VUGKU TO RW17: 3.00/40. CHART HEMPHILL COUNTY AWOS.			
BRISC	FIVWI (TF) (FB) (RNP 2.00)	045.66 / 10.71	7000				
OKWUS (IAF)	LUDYI (TF) (FB) (RNP 1.00)	264.78 / 8.00	7000				
FIVWI (IAF)	LUDYI (TF) (FB) (RNP 1.00)	084.59 / 7.50	7000				
EYMUW (IAF)	LUDYI (TF) (FB) (RNP 1.00)	174.78 / 15.91	7000				
LUDYI (IF)	VUGKU (TF) (FB) (RNP 1.00)	174.68 / 9.00	4300				
(SEE FORM 8260-10)							

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
 2. PROFILE STARTS AT LUDYI
 3. FAC: 174.68 FAF: VUGKU DIST FAF TO MAP: 5.74 THLD: _____
 4. MIN. ALT: LUDYI 7000, VUGKU 4300, YIBUL/2.50 NM TO RW17 3260
 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: RW17 4600

MAG VAR: 5E
EPOCH YEAR: 2020

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X					
CATEGORY ==>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
CIRCLING	2980	1	510	3000	1	530	3020	1 1/2	550		NA				

NOTES:
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: USE HEMPHILL COUNTY ALTIMETER SETTING.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRISC ON V272-440 WESTBOUND.

CITY AND STATE	ELEVATION: 2470 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
WHEELER, TX	AIRPORT NAME:	RNAV	RNAV (GPS)-A, AMDT 1	AMDT: ORIG
	WHEELER MUNI		17 AUGUST 2017	DATED 04/27/2017

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
VUGKU (FAF)	YIBUL/2.50 NM TO RW17 (TF) (FB) (RNP 0.30)	174.68 / 3.24	
YIBUL/2.50 NM TO RW17	RW17 (MAP) (TF) (FO) (RNP 0.30)	174.68 / 2.50	
RW17 (MAP)	2870 MSL (CA)	174.68	
2870 MSL	XANZI (DF) (FO) (RNP 1.00)		7000

QUALITY
5
CHECKED

CITY AND STATE WHEELER, TX	ELEVATION: 2470	TDZE:	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-A, AMDT 1 17 AUGUST 2017	SUP:	
	AIRPORT NAME:				AMDT:	ORIG
	WHEELER MUNI				DATED:	04/27/2017

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: RW35 CLIMB TO 7000 DIRECT LUDY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000. ADDITIONAL FLIGHT DATA: HOLD N, RT, 174.68 INBOUND. CHART FAS OBST: 2624 TREE 352501N/1001233W CHART CIRCLING ICON. IYTEY TO RW35: 3.00/40. CHART HEMPHILL COUNTY AWOS.							
BRISC		WUXOR (TF) (FB) (RNP 2.00)		159.64 / 23.58				7000									
WUDPI		WUXOR (TF) (FB) (RNP 2.00)		099.27 / 8.22				7000									
ZASPA (IAF)		XANZI (TF) (FB) (RNP 1.00)		264.78 / 8.00				7000									
WUXOR (IAF)		XANZI (TF) (FB) (RNP 1.00)		084.50 / 9.80				7000									
XANZI (IF)		IYTEY (TF) (FB) (RNP 1.00)		354.69 / 9.50				4000									
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT XANZI 3. FAC: <u>354.69</u> FAF: IYTEY _____ DIST FAF TO MAP: <u>4.68</u> THLD: _____ 4. MIN. ALT: <u>XANZI 7000, IYTEY 4000, JOKDI/2.51 NM TO RW35 3300</u> 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: <u>34:1 IS NOT CLEAR</u> 8. MSA FROM: <u>RW35 4600</u>																	
										MAG VAR: 5E			EPOCH YEAR: 2020				
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
CIRCLING	2980	1	510	3000	1	530	3020	1 1/2	550		NA						
NOTES: CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: USE HEMPHILL COUNTY ALTIMETER SETTING.																	
QUALITY 5 CHECKED																	
(CONTINUED ON PAGE 2)																	
CITY AND STATE				ELEVATION: 2470 TDZE:				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
WHEELER, TX				AIRPORT NAME:				RNAV				RNAV (GPS)-B, AMDT 1				AMDT: ORIG	
				WHEELER MUNI								17 AUGUST 2017				DATED 04/27/2017	

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
IYTEY (FAF)	JOKDI/2.51 NM TO RW35 (TF) (FB) (RNP 0.30)	354.69 / 2.17	
JOKDI/2.51 NM TO RW35	RW35 (MAP) (TF) (FO) (RNP 0.30)	354.69 / 2.51	
RW35 (MAP)	2870 MSL (CA)	354.69	
2870 MSL	LUDYI (DF) (FO) (RNP 1.00)		7000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRISC ON V272-440 WESTBOUND AND V402-440 EASTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WUDPI ON V140 WESTBOUND.

QUALITY
5
CHECKED

CITY AND STATE

WHEELER, TX

ELEVATION: 2470
AIRPORT NAME:

TDZE:

WHEELER MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS)-B, AMDT 1

17 AUGUST 2017

SUP:

AMDT: ORIG

DATED: 04/27/2017

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: 5.32 NM AFTER YYIPP/I-MOY 7.47 DME/RADAR OR AT I-MOY 2.15 DME CLIMB TO 4800 THEN CLIMB TO 10000 ON FFU VORTAC R-341 TO FFU VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 11000 ON TCH VORTAC R-161 TO JAURN/TCH VORTAC 22.22 DME THEN ON PVU R-311 TO PVU VOR/DME AND HOLD. (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW PVU VOR/DME, RT, 131.07 INBOUND. CHART FAS OBST: 4362 T-L TWR 405002N/1115858W CHART R-6412 A/B/C/D. CHART VDP AT 3.35 DME* DISTANCE VDP TO THLD 1.21 NM. *LOC ONLY. CHART IN PLANVIEW: PVU VOR/DME.							
WEBER/I-MOY 33.00 DME/RADAR (IAF)		IRON/I-MOY 22.42 DME/RADAR		163.95 / 10.58 (I-MOY)				11000									
OGD VORTAC (IAF)		IRON/I-MOY 22.42 DME/RADAR		128.23 / 6.06				11000									
IRON/I-MOY 22.42 DME/RADAR (IF)		TOOME/I-MOY 16.40 DME/RADAR		163.95 / 6.02 (I-MOY)				9000									
TOOME/I-MOY 16.40 DME/RADAR		LGOON/I-MOY 11.99 DME/RADAR		163.95 / 4.41 (I-MOY)				7500									
LGOON/I-MOY 11.99 DME/RADAR		YYIPP/I-MOY 7.47 DME/RADAR		163.95 / 4.52 (I-MOY)				6000									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT IRON/I-MOY 22.42 DME/RADAR 3. FAC: <u>163.95</u> FAF: <u>YYIPP/I-MOY 7.47 DME/RADAR</u> DIST FAF TO MAP: <u>5.32</u> THLD: <u>5.32</u> 4. MIN. ALT: IRON 11000, TOOME 9000, LGOON 7500, YYIPP 6000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: 904 150 HAT: _____ 100 HAT: 889 GS ANT: 1024 6. MIN GS INCPT: 6000 GS ALT AT: <u>YYIPP 6000</u> OM: _____ MM: _____ IM: 4328 7. GS ANGLE: <u>3.00</u> TCH: 54.6 8. MSA FROM: TCH VORTAC 050-230 12700, 230-320 8600, 320-050 11000										MAG VAR: 11E		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	4427	1800	200	4427	1800	200	4427	1800	200	4427	1800	200					
S-LOC 16L	4680	2400	453	4680	2400	453	4680	4000	453	4680	5000	453					
NOTES: CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16L: CAT A, B, C, D, RA 108, RVR 1200, HAT 100, DA 4327 MSL. CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16L: CAT III CAT A, B, C, D, RVR 700. CAT IIIB CAT A, B, C, D, RVR 300. CAT IIIC NA. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 4227 TDZE: 4227		FACILITY IDENTIFIER: I-MOY		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:					
SALT LAKE CITY, UT		AIRPORT NAME:		SALT LAKE CITY INTL		ILS OR LOC RWY 16L, AMDT 3B; ILS RWY 16L (CAT II), ILS RWY 16L (CAT III)						AMDT: 3A					
						17 AUGUST 2017						DATED 03/08/2012					



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

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NOTES, (CONT.):
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: DME OR RADAR REQUIRED.
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGD VORTAC AIRWAY RADIALS 068 CW 153.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



CITY AND STATE SALT LAKE CITY, UT	ELEVATION: 4227 TDZE: 4227 AIRPORT NAME: SALT LAKE CITY INTL	FACILITY IDENTIFIER: I-MOY	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 16L, AMDT 3B; ILS RWY 16L (CAT II), ILS RWY 16L (CAT III) 17 AUGUST 2017	SUP:
				AMDT: 3A
				DATED: 03/08/2012

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.															
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.34 NM AFTER BNKER/I-UAT 7.49 DME/RADAR OR AT I-UAT 2.14 DME CLIMB TO 4800 THEN CLIMBING RIGHT TURN TO 8100 ON HEADING 300 AND ON TCH VORTAC R-249 TO STACO INT/TCH VORTAC 20.00 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 4800 THEN CLIMBING RIGHT TURN TO 10000 ON HEADING 280. EXPECT RADAR VECTORS. (RADAR REQUIRED). ADDITIONAL FLIGHT DATA: HOLD W, LT, 069.32 INBOUND. CHART FAS OBST: 4328 TRMSN TWR 404925N/1120018W 4384 AAO 405412N/1120000W CHART VDP AT 3.04 DME* DISTANCE VDP TO THLD 0.90 NM. *LOC ONLY.									
FANDS/I-UAT 30.00 DME/RADAR (IAF)		RRUFF/I-UAT 22.40 DME/RADAR		163.95 / 7.60 (I-UAT)				9000											
OGD VORTAC (IAF)		RRUFF/I-UAT 22.40 DME/RADAR		136.55 / 5.50				9000											
RRUFF/I-UAT 22.40 DME/RADAR (IF)		UFEMY/I-UAT 16.27 DME/RADAR		163.95 / 6.13 (I-UAT)				8000											
UFEMY/I-UAT 16.27 DME/RADAR		BHIVE/I-UAT 12.60 DME/RADAR		163.95 / 3.67 (I-UAT)				7500											
BHIVE/I-UAT 12.60 DME/RADAR		BNKER/I-UAT 7.49 DME/RADAR		163.95 / 5.11 (I-UAT)				6000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT RRUFF/I-UAT 22.40 DME/RADAR 3. FAC: 163.95 FAF: BNKER/I-UAT 7.49 DME/RADAR DIST FAF TO MAP: 5.34 THLD: 5.34 4. MIN. ALT: RRUFF 9000, UFEMY 8000, BHIVE 7500, BNKER 6000 5. DIST TO THLD FROM OM: - MM: - IM: 934 150 HAT: 1910 100 HAT: 956 GS ANT: 1051 6. MIN GS INCPT: 6000 GS ALT AT: BNKER 6000 OM: - MM: - IM: 4326 7. GS ANGLE: 3.00 TCH: 52.1 8. MSA FROM: TCH VORTAC 050-230 12700, 230-320 8600, 320-050 11000																MAG VAR: 11E		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 16R	4423	1800	200	4423	1800	200	4423	1800	200	4423	1800	200							
S-LOC 16R	4580	2400	357	4580	2400	357	4580	2400	357	4580	4000	357							
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 157, RVR 1400, HAT 150, DA 4373 MSL. CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT A, B, C, D, RA 108, RVR 1200, HAT 100, DA 4323 MSL. (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 4227 TDZE: 4223				FACILITY IDENTIFIER: I-UAT		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
SALT LAKE CITY, UT		AIRPORT NAME:						ILS OR LOC RWY 16R, AMDT 3C; ILS RWY 16R (SA CAT I), ILS RWY 16R (CAT II), ILS RWY 16R (CAT III)				AMDT: 3B							
		SALT LAKE CITY INTL						17 AUGUST 2017				DATED 10/17/2013							



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
ILS - STANDARD				
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29				
NOTES, (CONT.): CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 16R: CAT III CAT A, B, C, D, RVR 700. CAT IIIB A, B, C, D, RVR 300. CAT IIIC NA. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: DME OR RADAR REQUIRED. SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH. CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGD VORTAC AIRWAY RADIALS 068 CW 153. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).				
QUALITY 19 CHECKED				
CITY AND STATE	ELEVATION: 4227	TDZE: 4223	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
SALT LAKE CITY, UT	AIRPORT NAME:		I-UAT	ILS OR LOC RWY 16R, AMDT 3C; ILS RWY 16R (SA CAT I), ILS RWY 16R (CAT II), ILS RWY 16R (CAT III)
	SALT LAKE CITY INTL			17 AUGUST 2017
			SUP:	
			AMDT:	3B
			DATED:	10/17/2013

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: 5.41 NM AFTER TIFUL INT/I-BNT 7.18 DME/RADAR OR AT I-BNT 1.77 DME CLIMB TO 5800 THEN CLIMBING LEFT TURN TO 10000 DIRECT FFU VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 11000 ON TCH VORTAC R-161 TO JAURN INT/TCH VORTAC 22.22 DME AND ON PVU VOR/DME R-311 TO PVU VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW PVU VOR/DME, RT, 131.07 INBOUND. CHART FAS OBST: 4444 TOWER 405107N/1115805W CHART VDP AT 3.03 DME* DISTANCE VDP TO THLD 1.26 NM. *LOC ONLY. CHART IN PLANVIEW: PVU VOR/DME. CHART MANDATORY 12000 AT WEBER.							
TUKTE/I-BNT 32.77 DME/RADAR (IAF)		UDUZU/I-BNT 21.77 DME/RADAR		168.99 / 10.99 (I-BNT)				11000									
WEBER (IAF)		GORPS (TF) (FB) (RNP 1.00)		149.19 / 5.74				11200									
GORPS		UDUZU (TF) (FB) (RNP 1.00)		149.21 / 6.00				11000									
OGD VORTAC (IAF)		UDUZU/I-BNT 21.77 DME/RADAR		117.63 / 8.26				11000									
UDUZU/I-BNT 21.77 DME/RADAR (SEE FORM 8260-10)		IVOCY/I-BNT 16.61 DME/RADAR		168.99 / 5.17 (I-BNT)				9000									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT UDUZU/I-BNT 21.77 DME/RADAR 3. FAC: 168.99 FAF: TIFUL INT/I-BNT 7.18 DME/RADAR DIST FAF TO MAP: 5.41 THLD: 5.41 4. MIN. ALT: UDUZU 11000, IVOCY 9000, PRYES 7500, TIFUL 6000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: 1759 100 HAT: 805 GS ANT: 1049 6. MIN GS INCPT: 6000 GS ALT AT: TIFUL 6000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.1 8. MSA FROM: TCH VORTAC 050-230 12700, 230-320 8600, 320-050 11000										MAG VAR: 11E		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 17	4419	1800	200	4419	1800	200	4419	1800	200	4419	1800	200	4419	1800	200		
S-LOC 17	4700	2400	481	4700	2400	481	4700	5000	481	4700	5000	481	4700	5000	481		
NOTES: <u>SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED;</u> S-ILS 17: CAT A, B, C, D, RA 149, RVR 1400, HAT 150, DA 4369 MSL. <u>SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED;</u> S-ILS 17: CAT A, B, C, D, RA 99, RVR 1200, HAT 100, DA 4319 MSL. (CONTINUED ON PAGE 2)																	
CITY AND STATE SALT LAKE CITY, UT		ELEVATION: 4227 TDZE: 4219 AIRPORT NAME: SALT LAKE CITY INTL		FACILITY IDENTIFIER: I-BNT		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 17, AMDT 14A; ILS RWY 17 (SA CAT I), ILS RWY 17 (SA CAT II) 17 AUGUST 2017						SUP: AMDT: 14 DATED 12/10/2015					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
IVOCY/I-BNT 16.61 DME/RADAR (IF)	PRYES/I-BNT 11.89 DME/RADAR	168.99 / 4.72 (I-BNT)	7500
PRYES/I-BNT 11.89 DME/RADAR	TIFUL INT/I-BNT 7.18 DME/RADAR	168.99 / 4.71 (I-BNT)	6000

NOTES, (CONT.):

CHART NOTE: DME OR RADAR REQUIRED.

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

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 17 CAT E VISIBILITY TO RVR 4000, INCREASE S-LOC 17 CAT C/D/E VISIBILITY TO 1 3/8 SM.

CHART PLANVIEW NOTE ADJACENT TO WEBER: GPS REQUIRED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGD VORTAC AIRWAY RADIALS 068 CW 153.

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.

QUALITY
19
CHECKED

CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4219

AIRPORT NAME:

SALT LAKE CITY INTL

FACILITY
IDENTIFIER:

I-BNT

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 17, AMDT 14A; ILS RWY 17 (SA CAT I),
ILS RWY 17 (SA CAT II)

17 AUGUST 2017

SUP:

AMDT: 14

DATED: 12/10/2015

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: 5.26 NM AFTER FLLAG/I-UUH 5.54 DME/RADAR OR AT FALEM/I-UUH 0.29 DME FIX CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 8100 ON TCH VORTAC R-249 TO STACO INT/TCH 20.00 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 10000 ON HEADING 260, EXPECT RADAR VECTORS. (RADAR REQUIRED). ADDITIONAL FLIGHT DATA: HOLD W, LT, 069.32 INBOUND. CHART FAS OBST: 4279 TREE 404542N/1115954W 4660 AAO 404016N/1120000W. CHART R-6412 A/B/C/D.										
FFU VORTAC (IAF)				PUTER/I-UUH 20.28 DME/RADAR				339.74 / 9.64						10000												
PUTER/I-UUH 20.28 DME/RADAR (IAF)				CAMRI/I-UUH 17.91 DME/RADAR				343.95 / 2.37 (I-UUH)						9000												
CAMRI/I-UUH 17.91 DME/RADAR (IF)				DUNLP/I-UUH 14.75 DME/RADAR				343.95 / 3.16 (I-UUH)						8000												
DUNLP/I-UUH 14.75 DME/RADAR				FLLAG/I-UUH 5.54 DME/RADAR				343.95 / 9.21 (I-UUH)						6100												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PUTER/I-UUH 20.28 DME/RADAR 3. FAC: <u>343.95</u> FAF: <u>FLLAG/I-UUH 5.54 DME/RADAR</u> DIST FAF TO MAP: <u>5.26</u> THLD: <u>5.71</u> 4. MIN. ALT: <u>PUTER 10000, CAMRI 9000, DUNLP 8000, FLLAG 6100, JUGOX/I-UUH 1.43 DME/RADAR 4780*</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: <u>862</u> 150 HAT: <u>1820</u> 100 HAT: <u>866</u> GS ANT: <u>1051</u> 6. MIN GS INCPT: <u>6100</u> GS ALT AT: <u>FLLAG 6100</u> OM: _____ - _____ MM: _____ - _____ IM: <u>4326</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.6</u> 8. MSA FROM: <u>TCH VORTAC 050-230 12700, 230-320 8600, 320-050 11000</u>																	MAG VAR: 11E					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	4426	1800	200	4426	1800	200	4426	1800	200	4426	1800	200														
S-LOC 34L	4560	2400	334	4560	2400	334	4560	2600	334	4560	2600	334														
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34L: CAT A, B, C, D, RA 158, RVR 1400, HAT 150, DA 4376 MSL. CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34L: CAT A, B, C, D, RA 102, RVR 1200, HAT 100, DA 4326 MSL. (CONTINUED ON PAGE 2)																										
CITY AND STATE				ELEVATION: 4227 TDZE: 4226				FACILITY IDENTIFIER: I-UUH			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:											
SALT LAKE CITY, UT				AIRPORT NAME:				SALT LAKE CITY INTL			ILS OR LOC RWY 34L, AMDT 3B; ILS RWY 34L (SA CAT I), ILS RWY 34L (CAT II), ILS RWY 34L (CAT III)				AMDT: 3A											
											17 AUGUST 2017				DATED 07/24/2014											



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

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

NOTES, (CONT.):

CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34L: CAT III CAT A, B, C, D,

RVR 700. CAT IIIB CAT A, B, C, D, RVR 300. CAT IIIC NA.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: DME OR RADAR REQUIRED.

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

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

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

***LOC ONLY**

CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT PUTER.



CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227**TDZE: 4226**

AIRPORT NAME:

SALT LAKE CITY INTL

FACILITY
IDENTIFIER:

I-UUH

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 34L, AMDT 3B; ILS RWY 34L (SA CAT I),
ILS RWY 34L (CAT II), ILS RWY 34L (CAT III)

17 AUGUST 2017

SUP:

AMDT: 3A

DATED: 07/24/2014

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: 5.27 NM AFTER CHEVL/I-SLC 5.56 DME/RADAR OR AT GITBE/I-SLC 0.29 DME FIX CLIMB TO 9000 DIRECT TCH VORTAC THEN ON TCH VORTAC R-331 TO OGD VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 10000 ON HEADING 330, EXPECT RADAR VECTORS. (RADAR REQUIRED). ADDITIONAL FLIGHT DATA: HOLD W, RT, 100.54 INBOUND. CHART FAS OBST: 4349 TOWER 404435N/1115744W CHART IN PROFILE VIEW: I-SLC DME ANTENNA 404618.71N/1115818.11W CHART R-6412 A/B/C/D. CHART VDP AT 1.10 DME* DISTANCE VDP TO THLD 1.27 NM. *LOC ONLY.						
FFU VORTAC (IAF)		PLAGE/I-SLC 20.17 DME/RADAR			345.73 / 9.71			11000								
PLAGE/I-SLC 20.17 DME/RADAR (IAF)		ALGIE/I-SLC 17.80 DME/RADAR			343.96 / 2.37 (I-SLC)			10000								
ALGIE/I-SLC 17.80 DME/RADAR (IF)		HAKKR/I-SLC 14.66 DME/RADAR			343.96 / 3.14 (I-SLC)			9000								
HAKKR/I-SLC 14.66 DME/RADAR		CHEVL/I-SLC 5.56 DME/RADAR			343.96 / 9.10 (I-SLC)			6100								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PLAGE/I-SLC 20.17 DME/RADAR 3. FAC: <u>343.96</u> FAF: <u>CHEVL/I-SLC 5.56 DME/RADAR</u> DIST FAF TO MAP: <u>5.27</u> THLD: <u>5.73</u> 4. MIN. ALT: <u>PLAGE 11000, ALGIE 10000, HAKKR 9000, CHEVL 6100, IRUYU/I-SLC 5.56 DME/RADAR 4900*</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: <u>1836</u> 100 HAT: <u>882</u> GS ANT: <u>1047</u> 6. MIN GS INCPT: <u>6100</u> GS ALT AT: <u>CHEVL 6100</u> OM: _____ - _____ MM: _____ - _____ IM: <u>4319</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>53.4</u> 8. MSA FROM: <u>TCH VORTAC 050-230 12700, 230-320 8600, 320-050 11000</u>										MAG VAR: 11E		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	4422	1800	200	4422	1800	200	4422	1800	200	4422	1800	200				
S-LOC 34R	4700	2400	478	4700	2400	478	4700	2400	478	4700	2400	478				
NOTES: <u>SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34R: CAT A, B, C, D, RA 151, RVR 1400, HAT 150, DA 4372 MSL.</u> <u>CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34R: CAT A, B, C, D, RA 100, RVR 1200, HAT 100, DA 4322 MSL.</u> (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 4227 TDZE: 4222			FACILITY IDENTIFIER: I-SLC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
SALT LAKE CITY, UT		AIRPORT NAME:			SALT LAKE CITY INTL		ILS OR LOC RWY 34R, AMDT 4B; ILS RWY 34R (SA CAT I), ILS RWY 34R (CAT II), ILS RWY 34R (CAT III)					AMDT: 4A				
							17 AUGUST 2017					DATED 07/24/2014				



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.	
ILS - STANDARD				
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29				
NOTES, (CONT.): CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 34R: CAT III CAT A, B, C, D, RVR 700. CAT IIIB CAT A, B, C, D, RVR 300. CAT IIIC NA. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: DME OR RADAR REQUIRED. SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH. CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).				
QUALITY 19 CHECKED				
CITY AND STATE	ELEVATION: 4227	TDZE: 4222	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
SALT LAKE CITY, UT	AIRPORT NAME:		I-SLC	ILS OR LOC RWY 34R, AMDT 4B; ILS RWY 34R (SA CAT I) , ILS RWY 34R (CAT II) , ILS RWY 34R (CAT III)
	SALT LAKE CITY INTL			17 AUGUST 2017
			SUP:	
			AMDT:	4A
			DATED:	07/24/2014

LDA - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.25				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LDA/GS: DA LDA: FORXS/I-UTJ 0.24 DME CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 9000 DIRECT TCH VORTAC AND ON TCH VORTAC R-331 TO OGD VORTAC AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 10000 ON HEADING 330, EXPECT RADAR VECTORS. (RADAR REQUIRED). ADDITIONAL FLIGHT DATA: HOLD NW, RT, 130.00 INBOUND. CHART FAS OBST: 4349 TOWER 404435N/1115744W CHART I-UTJ DME IN PROFILE VIEW CHART R-6412 A & B. CHART VDP AT 0.90 DME DISTANCE VDP TO THLD 1.14 NM. CHART (CFBRZ) AT INTERSECTION OF BLUPE DR LEG AND INTERMEDIATE COURSE. CHART (CFFJQ) AT INTERSECTION OF BOAGY DR LEG AND INTERMEDIATE COURSE. FAC CROSSES RWY C/L EXTENDED 2631 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 5.04 DEGREES.						
BLUPE LOM/RADAR (IAF)		HLMET/I-UTJ 20.89 DME		305.00 / 5.81 (HDG) & 342.95 / 3.84 (I-UTJ)				11000								
BOAGY/FFU 4.50 DME (IAF)		HLMET/I-UTJ 20.89 DME		310.00 / 4.16 (HDG) & 342.95 / 7.54 (I-UTJ)				11000								
FFU VORTAC (IAF)		HLMET/I-UTJ 20.89 DME		349.39 / 8.89				11000								
HLMET/I-UTJ 20.89 DME (IAF)		PEDLE/I-UTJ 17.75 DME		343.95 / 3.14 (I-UTJ)				10000								
PEDLE/I-UTJ 17.75 DME (IF)		ZEPOG/I-UTJ 14.60 DME		343.95 / 3.14 (I-UTJ)				9000								
ZEPOG/I-UTJ 14.60 DME		KERNN/I-UTJ 5.48 DME		343.95 / 9.12 (I-UTJ)				6100								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HLMET 3. FAC: 343.95 FAF: KERNN/I-UTJ 5.48 DME DIST FAF TO MAP: _____ THLD: 5.72 4. MIN. ALT: HLMET 11000, PEDLE 10000, ZEPOG 9000, KERNN 6100, WEEEL/I-UTJ 1.76 DME 4900* 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - 100 HAT: _____ - GS ANT: 1078 6. MIN GS INCPT: 6100 GS ALT AT: KERNN 6100 OM: _____ - _____ MM: _____ - _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 8. MSA FROM: TCH VORTAC 050-230 12700, 230-320 8600, 320-050 11000										MAG VAR: 11E		EPOCH YEAR: 2020				
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	
S-LDA/GS 35	4474	2400	250	4474	2400	250	4474	2400	250	4474	2400	250	4474	2400	250	
S-LDA 35	4660	2400	436	4660	2400	436	4660	4000	436	4660	4000	436	4660	4000	436	
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: LDA/GLIDE SLOPE CHART PROFILE NOTE: VGSI AND LDA GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 4227 TDZE: 4224		FACILITY IDENTIFIER: I-UTJ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: LDA/DME RWY 35						
SALT LAKE CITY, UT		AIRPORT NAME:		SALT LAKE CITY INTL		LDA RWY 35, ORIG-C				AMDT: ORIG-B						
						17 AUGUST 2017				DATED 07/24/2014						



LDA - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.25

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

NOTES, (CONT.):
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LDA/GS 35 CAT E VISIBILITY TO RVR 4000, INCREASE S-LDA 35 CAT E VISIBILITY TO 1 1/4 SM.
*LDA ONLY



CITY AND STATE SALT LAKE CITY, UT	ELEVATION: 4227 TDZE: 4224 AIRPORT NAME: SALT LAKE CITY INTL	FACILITY IDENTIFIER: I-UTJ	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: LDA RWY 35, ORIG-C 17 AUGUST 2017	SUP: LDA/DME RWY 35
				AMDT: ORIG-B
				DATED: 07/24/2014

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.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW16L CLIMB TO 10000 DIRECT RULFO AND ON TRACK 166.71 TO FFU VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.00 INBOUND. CHART FAS OBST: 4444 TOWER 405107N/1115805W CHART R-6412 A/B/C/D. CHART VDP AT 1.46 NM TO RW16L. YYIPP TO RW16L: 3.04/55											
OGD VORTAC (IAF)	IRRON (TF) (FB) (RNP 1.00)	131.23 / 6.06	10000												
IRRON (IF)	YAWVA (TF) (FB) (RNP 1.00)	163.90 / 4.35	9000												
YAWVA	LGOON (TF) (FB) (RNP 1.00)	163.94 / 6.08	7500												
LGOON	YYIPP (TF) (FB) (RNP 1.00)	163.94 / 4.52	6000												
YYIPP (FAF)	RW16L (MAP) (TF) (FO) (RNP 0.30)	163.94 / 5.32													
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT IRRON 3. FAC: <u>163.94</u> FAF: <u>YYIPP</u> DIST FAF TO MAP: <u>5.32</u> THLD: <u>5.32</u> 4. MIN. ALT: IRRON 10000, YAWVA 9000, LGOON 7500, YYIPP 6000 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: RW16L 13000								MAG VAR: 11E 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	DH/MDA	VIS	HAT/HAA
LNAV MDA	4760	2400	533	4760	2400	533	4760	5000	533	4760	6000	533	4760	1 1/2	533
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON OGD VORTAC AIRWAY RADIALS 068 CW 153. CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT E VISIBILITY TO 2 SM.															
CITY AND STATE SALT LAKE CITY, UT		ELEVATION: 4227 TDZE: 4227 AIRPORT NAME: SALT LAKE CITY INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16L, AMDT 1A 17 AUGUST 2017				SUP:					
										AMDT: 1					
										DATED 01/13/2011					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW16L (MAP)	4627 MSL (CA)	163.94	
4627 MSL	RULFO (DF) (FB) (RNP 1.00)		
RULFO	FFU VORTAC (TF) (FO) (RNP 1.00)	166.71 / 23.81	10000

QUALITY
19
CHECKED

CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4227

AIRPORT NAME:

SALT LAKE CITY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16L, AMDT 1A

17 AUGUST 2017

SUP:

AMDT: 1

DATED: 01/13/2011

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: RW16R CLIMB TO 10000 DIRECT BAURT AND ON TRACK 164.26 TO FFU VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.00 INBOUND. FAS OBST: 4414 AAO 405145N/1120119W CHART R-6412 A/B/C/D. CHART VDP AT 1.40 NM TO RW16R. BNKER TO RW16R: 3.05/52				
OGD VORTAC (IAF)	RRUFF (TF) (FB) (RNP 1.00)	139.55 / 5.50	9000					
RRUFF (IF)	JICCU (TF) (FB) (RNP 1.00)	163.92 / 4.44	8000					
JICCU	BHIVE (TF) (FB) (RNP 1.00)	163.93 / 5.36	7500					
BHIVE	BNKER (TF) (FB) (RNP 1.00)	163.93 / 5.11	6000					
BNKER (FAF)	RW16R (MAP) (TF) (FO) (RNP 0.30)	163.94 / 5.34						
(SEE FORM 8260-10)								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT RRUFF 3. FAC: <u>163.94</u> FAF: <u>BNKER</u> DIST FAF TO MAP: <u>5.34</u> THLD: <u>5.34</u> 4. MIN. ALT: <u>RRUFF 9000, JICCU 8000, BHIVE 7500, BNKER 6000</u> 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: <u>34:1 IS CLEAR</u> 8. MSA FROM: <u>RW16R 12700</u>								
				MAG VAR: <u>11E</u> EPOCH YEAR: <u>2020</u>				
MINIMUMS								
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A				
CATEGORY =====>				STANDARD				
	A		B		C		D	
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS
LNAV MDA	4740	2400	517	4740	2400	517	4740	5000
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON OGD VORTAC AIRWAY RADIALS 068 CW 221. CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT E VISIBILITY TO 1 3/4 SM.								
CITY AND STATE		ELEVATION: 4227 TDZE: 4223		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP:
SALT LAKE CITY, UT		AIRPORT NAME:				RNAV (GPS) RWY 16R, AMDT 1A		AMDT: 1
		SALT LAKE CITY INTL				17 AUGUST 2017		DATED 01/13/2011



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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW16R (MAP)	4627 MSL (CA)	163.94	
4627 MSL	BAURT (DF) (FB) (RNP 1.00)		
BAURT	FFU VORTAC (TF) (FO) (RNP 1.00)	164.26 / 23.89	10000

QUALITY
19
CHECKED

CITY AND STATE
SALT LAKE CITY, UT

ELEVATION: 4227 TDZE: 4223
AIRPORT NAME:
SALT LAKE CITY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 16R, AMDT 1A
17 AUGUST 2017

SUP:
AMDT: 1
DATED: 01/13/2011

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: RW17 CLIMB TO 4700 THEN CLIMBING LEFT TURN TO 10000 DIRECT FFU VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 340.00 INBOUND. CHART FAS OBST: 4444 TOWER 405107N/1115805W CHART: 4541 TOWER 405328N/1115633W DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 1.26 NM TO RW17* *LNAV ONLY. WAAS CHANNEL # 82338 REFERENCE PATH ID: W17A CHART MANDATORY 12000 AT WEBER. LTP HAE: 1269.8 M					
OGD VORTAC (IAF)		UDUZU (TF) (FB) (RNP 1.00)		120.63 / 8.26				11000							
WEBER (IAF)		GORPS (TF) (FB) (RNP 1.00)		152.19 / 5.74				11200							
GORPS		UDUZU (TF) (FB) (RNP 1.00)		152.21 / 6.00				11000							
TUKTE (IAF)		UDUZU (TF) (FB) (RNP 1.00)		168.99 / 10.99				11000							
UDUZU		IVOCY (TF) (FB) (RNP 1.00)		168.99 / 5.17				9000							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT UDUZU 3. FAC: 168.99 FAF: TIFUL DIST FAF TO MAP: 5.41 THLD: 5.41 4. MIN. ALT: UDUZU 11000, IVOCY 9000, PRYES 7500, TIFUL 6000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 6000 GS ALT AT: TIFUL 6000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.1 34:1 IS CLEAR 8. MSA FROM: RW17 13000										MAG VAR: 11E EPOCH YEAR: 2020					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	4419	2400	200	4419	2400	200	4419	2400	200	4419	2400	200	4419	2400	200
LNAV/VNAV DA	4571	3000	352	4571	3000	352	4571	3000	352	4571	3000	352	4571	3000	352
LNAV MDA	4700	2400	481	4700	2400	481	4700	5000	481	4700	5000	481	4700	5000	481
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 49C (121F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGD VORTAC AIRWAY RADIALS 068 CW 153. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 4227 TDZE: 4219				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
SALT LAKE CITY, UT		AIRPORT NAME:				RNAV		RNAV (GPS) RWY 17, AMDT 2A				AMDT: 2			
		SALT LAKE CITY INTL						17 AUGUST 2017				DATED 12/10/2015			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
IVOCY (IF)	PRYES (TF) (FB) (RNP 1.00)	168.99 / 4.72	7500
PRYES	TIFUL (TF) (FB) (RNP 1.00)	168.99 / 4.71	6000
TIFUL (FAF)	RW17 (MAP) (TF) (FO) (RNP 0.30)	168.99 / 5.41	
RW17 (MAP)	4700 MSL (CA)	168.99	4700
4700 MSL	FFU VORTAC (DF) (FO) (RNP 1.00)		10000

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E VISIBILITY TO RVR 6000, AND LNAV CAT C/D/E VISIBILITY TO 1 3/8 SM.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

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

QUALITY
19
CHECKED

CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4219

AIRPORT NAME:

SALT LAKE CITY INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 17, AMDT 2A

17 AUGUST 2017

SUP:

AMDT: 2

DATED: 12/10/2015

**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	KSLC
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	404756.0980N
LTP/FTP LONGITUDE	1115743.4550W
LTP/FTP ELLIPSOIDAL HEIGHT	+12698
FPAP LATITUDE	404621.2940N
FPAP LONGITUDE	1115743.4410W
THRESHOLD CROSSING HEIGHT (TCH)	00055.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

42F176A0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+12868
FPAP ORTHOMETRIC HEIGHT	+12868



CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4219

AIRPORT NAME:

SALT LAKE CITY INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 17, AMDT 2A

17 AUGUST 2017

SUP:

AMDT: 2

DATED: 12/10/2015

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		LPV: DA LNAV/VNAV: DA LNAV: RW34L CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 8100 DIRECT STACO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, LT, 071.32 INBOUND. CHART FAS OBST: 4382 TWR 404602N/1120024W 4660 AAO 404026N/1120022W. CHART R-6412 A/B/C/D. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.13 NM TO RW34L* *LNAV ONLY. WAAS CHANNEL # 70432 REFERENCE PATH ID: W34B LTP HAE: 1271 M									
FFU VORTAC (IAF)		PUTER (TF) (FB) (RNP 1.00)		344.74 / 9.64		10000											
BOAGY (IAF)		PUTER (TF) (FB) (RNP 1.00)		326.59 / 12.50		10000											
BLUPE (IAF)		PUTER (TF) (FB) (RNP 1.00)		315.53 / 10.60		10000											
PUTER (IAF)		CAMRI (TF) (FB) (RNP 1.00)		343.98 / 2.37		9000											
CAMRI (IF)		DUNLP (TF) (FB) (RNP 1.00)		343.97 / 3.16		8000											
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 11E EPOCH YEAR: 2020							
2. PROFILE STARTS AT PUTER																	
3. FAC: 343.96 FAF: FLLAG DIST FAF TO MAP: 5.71 THLD: 5.71																	
4. MIN. ALT: PUTER 10000, CAMRI 9000, DUNLP 8000, FLLAG 6100, JOMVA/2.60 NM TO RW34L 5100*																	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																	
6. MIN GS INCPT: 6100 GS ALT AT: FLLAG 6100 OM: _____ MM: _____ IM: _____																	
7. GS ANGLE: 3.00 TCH: 54.6 34:1 IS CLEAR																	
8. MSA FROM: RW34L 13000																	
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		4426	2400	200	4426	2400	200	4426	2400	200	4426	2400	200	4426	2400	200	
LNAV/VNAV DA		4577	3000	351	4577	3000	351	4577	3000	351	4577	3000	351	4577	3000	351	
LNAV MDA		4660	2400	434	4660	2400	434	4660	4000	434	4660	4000	434	4660	4000	434	
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 49C (121F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																	
CITY AND STATE SALT LAKE CITY, UT		ELEVATION: 4227 TDZE: 4226 AIRPORT NAME: SALT LAKE CITY INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34L, AMDT 1B 17 AUGUST 2017						SUP: AMDT: 1A DATED 07/24/2014					

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
DUNLP	FLLAG (TF) (FB) (RNP 1.00)	343.97 / 9.21	6100
FLLAG (FAF)	JOMVA/2.60 NM TO RW34L (TF) (FB) (RNP 0.30)	343.96 / 3.11	
JOMVA/2.60 NM TO RW34L	RW34L (MAP) (TF) (FO) (RNP 0.30)	343.96 / 2.60	
RW34L (MAP)	4800 MSL (CA)	343.96	4800
4800 MSL	STACO (DF) (FO) (RNP 1.00)		8100

NOTES, (CONT.):

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

CHART NOTE: LNAV PROCEDURE NA DURING SIMUTANEOUS OPERATIONS.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT E
VISIBILITY TO RVR 6000, LNAV CAT E VISIBILITY TO 1 1/4 SM.

QUALITY
19
CHECKED

CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4226

AIRPORT NAME:

SALT LAKE CITY INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34L, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

DATED: 07/24/2014

**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	KSLC
RUNWAY	RW34L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34B
LTP/FTP LATITUDE	404629.9030N
LTP/FTP LONGITUDE	1115943.6850W
LTP/FTP ELLIPSOIDAL HEIGHT	+12710
FPAP LATITUDE	404827.9900N
FPAP LONGITUDE	1115957.4200W
THRESHOLD CROSSING HEIGHT (TCH)	00054.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

F68EBD7E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+12881
FPAP ORTHOMETRIC HEIGHT	+12881

QUALITY
19
CHECKED

CITY AND STATE SALT LAKE CITY, UT	ELEVATION: 4227 TDZE: 4226 AIRPORT NAME: SALT LAKE CITY INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34L, AMDT 1B 17 AUGUST 2017	SUP:
				AMDT: 1A
				DATED: 07/24/2014

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: GITBE CLIMB TO 9000 DIRECT TCH VORTAC AND ON TRACK 335.78 TO OGD VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 126.00 INBOUND. CHART FAS OBST: 4320 TOWER 404442N/1115736W CHART R-6412 A/B/C/D. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 0.81 NM TO GITBE* *LNAV ONLY. WAAS CHANNEL # 49230 REFERENCE PATH ID: W34A LTP HAE: 1269.6 M						
FFU VORTAC (IAF)		PLAGE (TF) (FB) (RNP 1.00)		350.73 / 9.71				11000								
BOAGY (IAF)		PLAGE (TF) (FB) (RNP 1.00)		331.13 / 12.23				11000								
BLUPE (IAF)		PLAGE (TF) (FB) (RNP 1.00)		320.57 / 10.15				11000								
PLAGE (IAF)		ALGIE (TF) (FB) (RNP 1.00)		343.98 / 2.37				10000								
ALGIE (IF)		HAKKR (TF) (FB) (RNP 1.00)		343.98 / 3.14				9000								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PLAGE _____ 3. FAC: <u>343.97</u> FAF: <u>CHEVL</u> DIST FAF TO MAP: <u>5.27</u> THLD: <u>5.73</u> 4. MIN. ALT: <u>PLAGE 11000, ALGIE 10000, HAKKR 9000, CHEVL 6100, IRUYU/1.50 NM TO GITBE 4900</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>6100</u> GS ALT AT: <u>CHEVL 6100</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>53.4</u> 34:1 IS CLEAR 8. MSA FROM: <u>GITBE 13000</u>										MAG VAR: <u>11E</u> EPOCH YEAR: <u>2020</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	
LPV DA	4422	2400	200	4422	2400	200	4422	2400	200	4422	2400	200	4422	2400	200	
LNAV/VNAV DA	4735	6000	513	4735	6000	513	4735	6000	513	4735	6000	513	4735	6000	513	
LNAV MDA	4700	2400	478	4700	2400	478	4700	5000	478	4700	5000	478	4700	5000	478	
NOTES: CHART NOTE: SIMULTANEOUS APPROACH 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: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: <u>4227</u> TDZE: <u>4222</u>				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
SALT LAKE CITY, UT		AIRPORT NAME: SALT LAKE CITY INTL						RNAV (GPS) RWY 34R, AMDT 1B 17 AUGUST 2017				AMDT: <u>1A</u>				
												DATED <u>07/24/2014</u>				



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>
HAKKR	CHEVL (TF) (FB) (RNP 1.00)	343.98 / 9.10	6100
CHEVL (FAF)	IRUYU/1.50 NM TO GITBE (TF) (FB) (RNP 0.30)	343.97 / 3.77	
IRUYU/1.50 NM TO GITBE	GITBE (MAP) (TF) (FO) (RNP 0.30)	343.97 / 1.50	
GITBE (MAP)	4422 MSL (CA)	343.97	
4422 MSL	TCH VORTAC (DF) (FB) (RNP 1.00)		
TCH VORTAC	OGD VORTAC (TF) (FO) (RNP 1.00)	335.78 / 23.03	9000

NOTES, (CONT.):

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17 C (1 F) OR ABOVE 49 C (121 F).

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO 3/4, LNAV/VNAV CAT E VISIBILITY TO 1 3/4 AND LNAV CATS C/D/E TO 1 3/8 SM.

QUALITY
19
CHECKED

CITY AND STATE SALT LAKE CITY, UT	ELEVATION: 4227 AIRPORT NAME: SALT LAKE CITY INTL	TDZE: 4222 RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 34R, AMDT 1B 17 AUGUST 2017	SUP:
				AMDT: 1A
				DATED: 07/24/2014

**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	KSLC
RUNWAY	RW34R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	404628.6770N
LTP/FTP LONGITUDE	1115823.2450W
LTP/FTP ELLIPSOIDAL HEIGHT	+12696
FPAP LATITUDE	404826.8000N
FPAP LONGITUDE	1115836.9600W
THRESHOLD CROSSING HEIGHT (TCH)	00053.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

2F2BF52C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+12867
FPAP ORTHOMETRIC HEIGHT	+12867

QUALITY
19
CHECKED

CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4222

AIRPORT NAME:

SALT LAKE CITY INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34R, AMDT 1B

17 AUGUST 2017

SUP:

AMDT: 1A

DATED: 07/24/2014

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LP: RW35 LNAV: RW35 CLIMB TO 9000 DIRECT KNOBY AND ON TRACK 334.12 TO OGD VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 130.00 INBOUND. CHART FAS OBST: 4298 TOWER 404526N/1115743W CHART FAS OBST: 4368 T-L TWR 404523N/1115656W CHART: 4349 TOWER 404436N/1115748W 4539 AAO 404039N/1115802W 4599 AAO 404019N/1115838W CHART R-6412 A & B. CHART VDP AT 0.82 NM TO RW35. WAAS CHANNEL # 77722 REFERENCE PATH ID: W35A KERNN TO RW35: 3.00/55. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 4.65 DEGREES. LTP HAE: 1270.4 M												
FFU VORTAC (IAF)				HLMET (TF) (FB) (RNP 1.00)				354.39 / 8.89				11000														
BLUPE (IAF)				HLMET (TF) (FB) (RNP 1.00)				320.99 / 9.14				11000														
BOAGY (IAF)				HLMET (TF) (FB) (RNP 1.00)				332.41 / 11.26				11000														
HLMET (IAF)				PEDLE (TF) (FB) (RNP 1.00)				343.98 / 3.14				10000														
PEDLE (IF)				ZEPOG (TF) (FB) (RNP 1.00)				343.97 / 3.14				9000														
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HLMET 3. FAC: 344.34 FAF: KERNN DIST FAF TO MAP: 5.72 THLD: 5.72 4. MIN. ALT: HLMET 11000, PEDLE 10000, ZEPOG 9000, KERNN 6100, YICYU/2.00 NM TO RW35 4900 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: RW35 13000																	MAG VAR: 11E EPOCH YEAR: 2020									
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																	ALTERNATE: N A			STANDARD						
CATEGORY ==>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
LP MDA	4560	2400	336	4560	2400	336	4560	2600	336	4560	2600	336	4560	2600	336	4560	2600	336								
LNAV MDA	4760	2400	536	4760	2400	536	4760	5500	536	4760	5500	536	4760	5500	536	4760	5500	536								
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: FOR INOPERATIVE ALS, INCREASE LP CAT E TO RVR 5000, INCREASE LNAV CAT E TO 1 1/2 SM.																										
CITY AND STATE SALT LAKE CITY, UT				ELEVATION: 4227 TDZE: 4224 AIRPORT NAME: SALT LAKE CITY INTL				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 3 17 AUGUST 2017						SUP:								
																		AMDT: 2A								
																		DATED 07/24/2014								



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
ZEPOG	KERNN (TF) (FB) (RNP 1.00)	343.97 / 9.12	6100
KERNN (FAF)	YICYU/2.00 NM TO RW35 (TF) (FB) (RNP 0.30)	344.34 / 3.72	
YICYU/2.00 NM TO RW35	RW35 (MAP) (TF) (FO) (RNP 0.30)	344.34 / 2.00	
RW35 (MAP)	4560 MSL (CA)	344.34	
4560 MSL	KNOBY (DF) (FB) (RNP 1.00)		
KNOBY	OGD VORTAC (TF) (FO) (RNP 1.00)	334.12 / 22.28	9000

QUALITY
19
CHECKED

CITY AND STATE

SALT LAKE CITY, UT

ELEVATION: 4227

TDZE: 4224

AIRPORT NAME:

SALT LAKE CITY INTL

 FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 35, AMDT 3

17 AUGUST 2017

SUP:

AMDT: 2A

DATED: 07/24/2014

**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	KSLC
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	404624.4910N
LTP/FTP LONGITUDE	1115743.4410W
LTP/FTP ELLIPSOIDAL HEIGHT	+12704
FPAP LATITUDE	404753.3510N
FPAP LONGITUDE	1115752.9890W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 53D2EC05

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+12874
FPAP ORTHOMETRIC HEIGHT	+12874

QUALITY
19
CHECKED

CITY AND STATE SALT LAKE CITY, UT	ELEVATION: 4227 TDZE: 4224 AIRPORT NAME: SALT LAKE CITY INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 3 17 AUGUST 2017	SUP:
				AMDT: 2A
				DATED: 07/24/2014

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: AKQ NDB																			
SWING INT			AKQ NDB			247.45 / 10.57			2000		CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2000 DIRECT AKQ NDB AND HOLD.																			
HPW VORTAC			AKQ NDB			171.07 / 21.46			2000																					
										ADDITIONAL FLIGHT DATA: HOLD SW, RT, 023.89 INBOUND. CHART FAS OBST: 365 TOWER 370328N/0765625W CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 4066 FT FROM THLD.																				
1. PT <u>R</u> SIDE OF COURSE <u>023.89</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>AKQ NDB</u> (IAF)										MAG VAR: 11W EPOCH YEAR: 2020																				
2.																														
3. FAC <u>203.89</u> FAF _____ DIST FAF TO MAP _____ THLD _____																														
4. MIN. ALT _____																														
8. MSA FROM: <u>AKQ NDB 2300</u>																														
MINIMUMS																														
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N		A		X																
CATEGORY =====>		A			B			C			D			E																
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA															
S-20	1120	3	1010	1120	3	1010	1120	3	1010	1120	3	1010																		
CIRCLING	1120	3	1009	1120	3	1009	1120	3	1009	1120	3	1009																		
NOTES:																														
CHART NOTE: PROCEDURE NA AT NIGHT.																														
QUALITY 6 CHECKED																														
																CITY AND STATE WAKEFIELD, VA			ELEVATION: 111 TDZE: 110 AIRPORT NAME: WAKEFIELD MUNI			FACILITY IDENTIFIER: AKQ			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 20, AMDT 5 17 AUGUST 2017			SUP		
																												AMDT 4D		
DATE 11/18/2010																														

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												MISSED APPROACH					
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LNAV: RW20					
NOXEE (IF/IAF)			MILUE (TF) (FB) (RNP 1.00)			207.93 / 6.00			1700			CLIMBING LEFT TURN 2600 DIRECT NOXEE AND HOLD.					
MILUE (FAF)			RW20 (MAP) (TF) (FO) (RNP 0.30)			207.91 / 5.00											
RW20 (MAP)			511 MSL (CA)			207.91			2600								
511 MSL			NOXEE (DF) (FO) (RNP 1.00)									ADDITIONAL FLIGHT DATA: CHART CIRCLING ICON. MILUE TO RW20: 2.92/40 FAS OBST: 320 AAO 370430N/0765803W					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. HOLD NE NOXEE, RT, 207.93 INBOUND, 2600 FT. IN LIEU OF PT (IAF)																	
3. FAC: 207.91 FAF: MILUE DIST FAF TO MAP: 5.00 THLD: 5.00																	
4. MIN. ALT: NOXEE 2600, MILUE 1700																	
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: 2020		
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	1120	3	1010	1120	3	1010	1120	3	1010	1120	3	1010					
CIRCLING	1120	3	1009	1120	3	1009	1120	3	1009	1120	3	1009					
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ CAT A, B, C, D 1100-3 CHART NOTE: PROCEDURE NA AT NIGHT.																	
CITY AND STATE WAKEFIELD, VA			ELEVATION: 111 TDZE: 110 AIRPORT NAME: WAKEFIELD MUNI			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 1 17 AUGUST 2017					SUP: AMDT: ORIG-A DATED 01/13/2011				



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

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

TAA

	FROM	TO	ALT
1.	118/30 CW 298/30 (NOPT)	NOXEE (IF/IAF) (FB)	2600
2.	298/30 CW 118/30	NOXEE (IF/IAF) (FO)	2600

QUALITY
6
CHECKED

CITY AND STATE WAKEFIELD, VA	ELEVATION: 111 TDZE: 110 AIRPORT NAME: WAKEFIELD MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 1 17 AUGUST 2017	SUP:
				AMDT: ORIG-A
				DATED: 01/13/2011

**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>
WAKEFIELD, VA	WAKEFIELD MUNI	17 AUGUST 2017	1

TAKEOFF MINIMUMS:
STANDARD

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 2, TREE, VEHICLE BEGINNING 54 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 183 FT MSL. TREE 277 FT FROM DER, 83 FT RIGHT OF CENTERLINE, 119 FT MSL. TREES BEGINNING 412 FT FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 188 FT MSL. TREE 802 FT FROM DER, 492 FT LEFT OF CENTERLINE, 187 FT MSL. TREES BEGINNING 1012 FT FROM DER, 117 FT LEFT OF CENTERLINE, UP TO 197 FT MSL. TREE 3117 FT FROM DER, 210 FT RIGHT OF CENTERLINE, 191 FT MSL. TREE 3203 FT FROM DER, 522 FT RIGHT OF CENTERLINE, 192 FT MSL.

NOTE: RWY 20, POLE 16 FT FROM DER, 408 FT LEFT OF CENTERLINE, 140 FT MSL. TREE, BLDG BEGINNING 67 FT FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 170 FT MSL. TREE, POLE, BEGINNING 103 FT FROM DER, 72 FT LEFT OF CENTERLINE, UP TO 179 FT MSL. TREES BEGINNING 460 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 179 FT MSL. TREE 1265 FT FROM DER, 567 FT RIGHT OF CENTERLINE, 193 FT MSL. TREES BEGINNING 1280 FT FROM DER, 499 FT LEFT OF CENTERLINE, UP TO 191 FT MSL. TREE 1299 FT FROM DER, 463 FT RIGHT OF CENTERLINE, 198 FT MSL. TREE, TRANSMISSION TWR, UTILITY LINE BEGINNING 1344 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 206 FT MSL. TREE, TRANSMISSION TWR BEGINNING 1398 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 196 FT MSL. TREES BEGINNING 3250 FT FROM DER, 556 FT LEFT OF CENTERLINE, UP TO 200 FT MSL. TREE 3919 FT FROM DER, 519 FT LEFT OF CENTERLINE, 207 FT MSL.

CONTROLLING OBSTACLES:



**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>
WAKEFIELD, VA	WAKEFIELD MUNI	17 AUGUST 2017	1

REMARKS:

FLIGHT INSPECTED BY:

BOB S PRESSLER

Digitally signed by

VICTOR B NASO

Jul 05, 2017

OFFICE SYMBOL:

FICO

DATE:

6/21/17

DEVELOPED BY:

VICTOR B. NASO (DANIEL BOWMAN)

Digitally signed by

VICTOR B NASO

Jul 05, 2017

OFFICE SYMBOL:

AJV-5413

DATE:

04/12/2017

APPROVED BY:

GEORGE E. DAVIS, MANAGER

Digitally signed by

VICTOR B NASO

Jul 05, 2017

OFFICE SYMBOL:

AJV-5410

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

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

☐☒☒☐☐☒

OTHER:

ORF APPROACH CONTROL, ZDC, APT MGR AND VA AIRPORT AUTHORITY

CHANGES - REASONS:

CHANGES:

1. ADDED TAKEOFF OBSTACLE NOTES. (NONE CURRENTLY CHARTED). ADDED OBSTACLES USING AJV APPROVED OBSTACLE GROUPER.
2. DELETED TEXTUAL DEPARTURE PROCEDURE/CONTROLLING OBSTACLE.

REASONS:

1. OBSTACLE EVALUATION.
2. NO LONGER REQUIRED.

THIS CANCELS FDC 7/1079.



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		UGUYE CLIMBING RIGHT TURN TO 3000 DIRECT ORTIN AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 333 TREE 471742N/1221215W CHART CIRCLING ICON. JISTA TO RW34: 4.00/53 CHART SEATTLE TAKOMA INTL ASOS CHART PLANVIEW NOTE: RADAR REQUIRED. FAC CROSSES RWY C/L EXTENDED 3037 FT FROM THLD.									
CIDUG (IAF)		ORTIN (NOPT) (TF) (FB) (RNP 1.00)		032.83 / 11.20				3000											
ORTIN (IF/IAF)		JISTA (TF) (FB) (RNP 1.00)		331.12 / 7.41				2100											
JISTA (FAF)		CAXAM/1.91 NM TO UGUYE (TF) (FO) (RNP 0.30)		331.13 / 2.26															
CAXAM/1.91 NM TO UGUYE		UGUYE (MAP) (TF) (FO) (RNP 0.30)		331.13 / 1.91															
UGUYE (MAP)		463 MSL (CA)		331.13				3000											
463 MSL		ORTIN (DF) (FO) (RNP 1.00)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW ORTIN, LT, 032.83 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 331.13 FAF: JISTA DIST FAF TO MAP: 4.17 THLD: _____ 4. MIN. ALT: ORTIN 3000, JISTA 2100, CAXAM/1.91 NM TO UGUYE 1140 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: UGUYE 7700																MAG VAR: 18E		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				
CIRCLING	920	1 1/4	857	1040	1 1/2	977		NA			NA								
NOTES: CHART NOTE: CIRCLING NA W OF RWY 16-34. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: USE SEATTLE-TACOMA INTL ALTIMETER SETTING. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG ON V495 SOUTHBOUND.																			
CITY AND STATE		ELEVATION: 63 TDZE:		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
AUBURN, WA		AIRPORT NAME:		RNAV		RNAV (GPS)-A, AMDT 1 17 AUGUST 2017				AMDT: ORIG									
		AUBURN MUNI								DATED 10/25/2007									



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

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



CITY AND STATE AUBURN, WA	ELEVATION: 63 AIRPORT NAME: AUBURN MUNI	TDZE:	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS)-A, AMDT 1 17 AUGUST 2017	SUP:
					AMDT: ORIG
					DATED: 10/25/2007

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES														MISSED APPROACH													
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: I-BFI 1.73 DME													
SEA VORTAC				ISOGE/I-BFI 9.00 DME/RADAR				324.74 / 13.15				2200		CLIMB ON I-BFI SOUTHEAST COURSE TO CROSS OCEZE/I-BFI 3.90 DME/RADAR AT OR BELOW 1500, THEN CLIMB TO 6400 ON I-BFI SOUTHEAST COURSE AND SEA R-104 TO BLAKO INT/SEA 11.81 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6400.													
ISOGE/I-BFI 9.00 DME/RADAR (IF/IAF)				TOGAE/I-BFI 6.58 DME/RADAR				135.20 / 2.42 (I-BFI)				1600															
														ADDITIONAL FLIGHT DATA: HOLD E, RT, 284.46 INBOUND. CHART FAS OBST: 325 CRANE 473448N/1222043W CHART VDP AT 3.37 DME* DISTANCE VDP TO THLD 1.64 NM. *LOC ONLY. CHART CIRCLING ICON CHART PLANVIEW NOTE: DME AND RADAR REQUIRED. CHART SEA R-325/13.15 DME AT ISOGE. CHART MAXIMUM 1500 AT OCEZE.													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 15E EPOCH YEAR: 2020													
2. HOLD NW ISOGE, RT, 135.20 INBOUND, 2200 FT. IN LIEU OF PT (IAF)																											
3. FAC: 135.20 FAF: TOGAE/I-BFI 6.58 DME/RADAR DIST FAF TO MAP: _____ THLD: 4.85																											
4. MIN. ALT: ISOGE 2200, TOGAE 1600, SOTEE/I-BFI 4.73 DME/RADAR 1080*																											
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 750																											
6. MIN GS INCPT: 1600 GS ALT AT: TOGAE 1600 OM: _____ MM: _____ IM: _____																											
7. GS ANGLE: 3.00 TCH: 38.8																											
8. MSA FROM: SEA VORTAC 010-160 6400, 160-250 2200, 250-010 3400																											
MINIMUMS																											
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT														ALTERNATE: N A		ILS: #		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	DH/MDA	VIS	HAT/HAA									
S-ILS 14R	308	4000	290	308	4000	290	308	4000	290	308	4000	290	308	4000	290												
S-LOC 14R	580	4000	562	580	4000	562	580	1 3/8	562	580	1 3/8	562															
CIRCLING	760	1	738	880	1 1/4	858	960	2 3/4	938	960	3	938															
NOTES: CHART NOTE: CIRCLING NA FOR C AND D NE OF RWY 14L-32R. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 14R VISIBILITY CAT A/B TO RVR 5500, INCREASE CAT C/D VISIBILITY TO 1 5/8 SM. CHART NOTE: DME AND RADAR REQUIRED. (CONTINUED ON PAGE 2)														# @ NA WHEN CONTROL TOWER CLOSED. # CAT A 800-2, CAT B 900-2, CAT C 1000-2 3/4, CAT D 1000-3 @ CAT B 900-2, CAT C 1000-2 3/4, CAT D 1000-3												QUALITY 18 CHECKED	
CITY AND STATE SEATTLE, WA				ELEVATION: 22 TDZE: 18 AIRPORT NAME: BOEING FIELD/KING COUNTY INTL				FACILITY IDENTIFIER: I-BFI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 14R, AMDT 31 17 AUGUST 2017						SUP: ILS RWY 13R											
														AMDT: 30A													
														DATED 07/24/2014													

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

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

NOTES, (CONT.):

CHART NOTE: RWY 14R HELICOPTER VISIBILITY BELOW 3/4 SM NOT AUTHORIZED.

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

CHART NOTE: CIRCLING RWY 32R NA AT NIGHT.

CHART PLANVIEW NOTE: A DESCENT TO AT OR BELOW 1500 MAY BE REQUIRED WHEN EXECUTING AN EARLY MISSED APPROACH.

QUALITY
18
CHECKED

CITY AND STATE SEATTLE, WA	ELEVATION: 22 AIRPORT NAME: BOEING FIELD/KING COUNTY INTL	TDZE: 18	FACILITY IDENTIFIER: I-BFI	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 14R, AMDT 31 17 AUGUST 2017	SUP: ILS RWY 13R
					AMDT: 30A
					DATED: 07/24/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC/DME 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											
										ADDITIONAL FLIGHT DATA:									
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																			
2. ____																			
3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____																			
4. MIN. ALT ____																			
8. MSA FROM:										MAG VAR: EPOCH YEAR:									
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY =====>																			
		MDA	VIS			MDA	VIS			MDA	VIS			MDA	VIS				
NOTES:																			
PROCEDURE CANCELED EFFECTIVE 17 AUGUST 2017																			
CITY AND STATE SEATTLE, WA				ELEVATION: 21 TDZE: 18 AIRPORT NAME: BOEING FIELD/KING COUNTY INTL				FACILITY IDENTIFIER: I-BFI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC/DME RWY 13R, AMDT 2A, 07/24/2014						SUP AMDT 2 DATE 12/17/2009			

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO			COURSE AND DISTANCE				ALTITUDE		LNAV: RW14R						
PAE VOR/DME		ZUVEN (TF) (FB) (RNP 2.00)			203.44 / 9.20				4000		CLIMB DIRECT OCEZE, CROSS OCEZE AT OR BELOW 1500 THEN CLIMB TO 6400 ON TRACK 123.15 TO BLAKO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6400.						
ZUVEN (IAF)		JUGOK (TF) (FB) (RNP 1.00)			184.49 / 9.03				2900								
LOFAL (IAF)		JUGOK (TF) (FB) (RNP 1.00)			131.86 / 13.87				2900								
JUGOK (IF)		FISEN (TF) (FB) (RNP 1.00)			106.10 / 6.00				1700								
FISEN (FAF)		ZAGRO/3.40 NM TO RW14R (TF) (FB) (RNP 0.30)			135.15 / 1.14						ADDITIONAL FLIGHT DATA: HOLD E, RT, 283.00 INBOUND. CHART FAS OBST: 421 TRMSN TWR 473337N/1221843W CHART: 745 MONUMENT 473713N/1222057W CHART VDP AT 1.70 NM TO RW14R. FISEN TO RW14R: 3.38/50. CHART CIRCLING ICON CHART MAXIMUM 1500 AT OCEZE.						
(SEE FORM 8260-10)																	
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																	
2. PROFILE STARTS AT JUGOK																	
3. FAC: 135.15 FAF: FISEN DIST FAF TO MAP: 4.54 THLD: 4.54																	
4. MIN. ALT: JUGOK 2900, FISEN 1700, ZAGRO/3.40 NM TO RW14R 1280																	
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: RW14R 6200																	
MAG VAR: 15E EPOCH YEAR: 2020																	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @								
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LNAV MDA	680	4000	662	680	4000	662	680	1 3/4	662	680	1 3/4	662					
CIRCLING	760	1	738	880	1 1/4	858	960	2 3/4	938	960	3	938					
NOTES: CHART NOTE: CIRCLING NA FOR CATS C AND D NE OF RWY 14L-32R. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C AND CAT D VISIBILITY TO 1 7/8 SM. CHART NOTE: RWY 14R HELICOPTER VISIBILITY BELOW RVR 4000 NOT AUTHORIZED. (CONTINUED ON PAGE 2)																	
CITY AND STATE SEATTLE, WA		ELEVATION: 22 TDZE: 18 AIRPORT NAME: BOEING FIELD/KING COUNTY INTL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 14R, AMDT 1 17 AUGUST 2017					SUP: RNAV (GPS) Y RWY 13R AMDT: ORIG-D DATED 07/24/2014					

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
ZAGRO/3.40 NM TO RW14R	RW14R (MAP) (TF) (FO) (RNP 0.30)	135.15 / 3.40	
RW14R (MAP)	422 MSL (CA)	135.15	
422 MSL	OCEZE (DF) (FB) (RNP 1.00)		1500
OCEZE	BLAKO (TF) (FO) (RNP 1.00)	123.15 / 10.67	6400

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PAE VOR/DME ON AIRWAY RADIALS 163 CW 236.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOFAL ON V4-495 NORTHWEST BOUND.

CHART NOTE: CIRCLING RWY 32R NA AT NIGHT.

CHART PLANVIEW NOTE: A DESCENT TO AT OR BELOW 1500 MAY BE REQUIRED WHEN EXECUTING AN EARLY MISSED APPROACH.

QUALITY
18
CHECKED

CITY AND STATE

SEATTLE, WA

ELEVATION: 22

TDZE: 18

AIRPORT NAME:

BOEING FIELD/KING COUNTY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 14R, AMDT 1

17 AUGUST 2017

SUP: **RNAV (GPS) Y RWY 13R**

AMDT: **ORIG-D**

DATED: **07/24/2014**

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31146](#); Amdt. No. [3758](#)

**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 [July 14, 2017](#)

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

John S. Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal regulations, Part 97, (14 CFR part 97), is amended by 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
17-Aug-17	AR	Rogers	Rogers Executive - Carter Field	7/2644	5/26/17	This NOTAM, published in TL 17-17, is hereby rescinded in its entirety.
17-Aug-17	AR	Rogers	Rogers Executive - Carter Field	7/2645	5/26/17	This NOTAM, published in TL 17-17, is hereby rescinded in its entirety.
17-Aug-17	MI	Three Rivers	Three Rivers Muni Dr Haines	7/4244	6/20/17	This NOTAM, published in TL 17-17, is hereby rescinded in its entirety.
AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
17-Aug-17	WA	Yakima	Yakima Air Terminal/Mcallister Field	7/0247	6/29/17	RNAV (GPS) X RWY 27, Amdt 1B
17-Aug-17	MD	Baltimore	Baltimore/Washington Intl Thurgood Marshall	7/0382	7/6/17	RNAV (GPS) Y RWY 28, Amdt 2
17-Aug-17	MD	Baltimore	Baltimore/Washington Intl Thurgood Marshall	7/0387	7/6/17	RNAV (GPS) Y RWY 15R, Amdt 2
17-Aug-17	IN	Indianapolis	Indianapolis Intl	7/0391	7/6/17	RNAV (GPS) Y RWY 5L, Amdt 4
17-Aug-17	IN	Indianapolis	Indianapolis Intl	7/0394	7/6/17	RNAV (GPS) Y RWY 5R, Amdt 4
17-Aug-17	OH	Wilmington	Wilmington Air Park	7/0707	7/5/17	RNAV (GPS) RWY 22R, Orig
17-Aug-17	CA	San Jose	Norman Y Mineta San Jose Intl	7/0708	7/6/17	RNAV (GPS) Y RWY 30L, Amdt 3A
17-Aug-17	ND	Bismarck	Bismarck Muni	7/0710	7/5/17	RNAV (GPS) RWY 31, Amdt 1A
17-Aug-17	OK	Tulsa	Tulsa Intl	7/0711	7/5/17	RNAV (GPS) RWY 36R, Amdt 1B
17-Aug-17	SC	Myrtle Beach	Myrtle Beach Intl	7/0717	7/6/17	RNAV (GPS) RWY 18, Amdt 4
17-Aug-17	SC	Charleston	Charleston AFB/Intl	7/0718	7/5/17	RNAV (GPS) Y RWY 15, Amdt 3B
17-Aug-17	TX	Fort Worth	Fort Worth Meacham Intl	7/0723	7/6/17	RNAV (GPS) RWY 16, Amdt 1A
17-Aug-17	SC	Columbia	Columbia Metropolitan	7/0724	7/5/17	RNAV (GPS) RWY 11, Amdt 1
17-Aug-17	TN	Nashville	Nashville Intl	7/0725	7/6/17	RNAV (GPS) Y RWY 20L, Amdt 2A
17-Aug-17	TX	Dallas	Dallas Love Field	7/0726	7/5/17	RNAV (GPS) Z RWY 13L, Amdt 3
17-Aug-17	TX	Abilene	Abilene Rgnl	7/0727	7/6/17	RNAV (GPS) RWY 35R, Amdt 1A

17-Aug-17	TN	Memphis	Memphis Intl	7/0737	7/6/17	RNAV (GPS) RWY 27, Amdt 2B
17-Aug-17	TX	Corpus Christi	Corpus Christi Intl	7/0740	7/6/17	RNAV (GPS) Y RWY 13, Amdt 2
17-Aug-17	ME	Portland	Portland Intl Jetport	7/0750	7/5/17	RNAV (GPS) RWY 29, Amdt 3
17-Aug-17	MI	Detroit	Detroit Metropolitan Wayne County	7/0761	7/5/17	RNAV (GPS) RWY 21L, Amdt 3
17-Aug-17	IN	Indianapolis	Indianapolis Intl	7/0913	6/29/17	RNAV (GPS) Y RWY 14, Amdt 4
17-Aug-17	IN	Indianapolis	Indianapolis Intl	7/0921	6/29/17	RNAV (GPS) Y RWY 23L, Amdt 4
17-Aug-17	IN	Indianapolis	Indianapolis Intl	7/0922	6/29/17	RNAV (GPS) Y RWY 23R, Amdt 4
17-Aug-17	IN	Indianapolis	Indianapolis Intl	7/0927	6/29/17	RNAV (GPS) Y RWY 32, Amdt 4
17-Aug-17	SC	Columbia	Columbia Metropolitan	7/0930	7/6/17	RNAV (GPS) RWY 29, Amdt 1
17-Aug-17	MI	Flint	Bishop Intl	7/0940	7/5/17	RNAV (GPS) RWY 9, Amdt 1
17-Aug-17	VA	Richmond	Richmond Intl	7/0944	7/6/17	RNAV (GPS) Z RWY 16, Amdt 1B
17-Aug-17	IL	Belleville	Scott AFB/MidAmerica	7/1217	7/10/17	RNAV (GPS) RWY 32R, Orig-C
17-Aug-17	IN	Fort Wayne	Fort Wayne Intl	7/1218	7/5/17	RNAV (GPS) RWY 32, Amdt 1A
17-Aug-17	IN	Gary	Gary/Chicago Intl	7/1228	7/5/17	RNAV (GPS) Y RWY 30, Amdt 1
17-Aug-17	NY	New York	John F Kennedy Intl	7/1338	7/5/17	RNAV (GPS) Y RWY 31R, Amdt 2
17-Aug-17	TN	Crossville	Crossville Memorial-Whitson Field	7/1343	6/29/17	RNAV (GPS) RWY 26, Orig-A
17-Aug-17	KS	Chanute	Chanute Martin Johnson	7/1427	6/29/17	RNAV (GPS) RWY 36, Orig-A
17-Aug-17	TN	Memphis	Memphis Intl	7/1979	7/5/17	RNAV (GPS) Z RWY 18R, Amdt 2C
17-Aug-17	AL	Dothan	Dothan Rgnl	7/1998	7/5/17	RNAV (GPS) RWY 32, Amdt 1A
17-Aug-17	NC	Winston Salem	Smith Reynolds	7/2473	7/5/17	ILS OR LOC RWY 33, Amdt 29C
17-Aug-17	NC	Winston Salem	Smith Reynolds	7/2484	7/5/17	RNAV (GPS) RWY 33, Orig-A
17-Aug-17	NC	Winston Salem	Smith Reynolds	7/2514	7/5/17	RNAV (GPS) RWY 15, Amdt 1A
17-Aug-17	NC	Winston Salem	Smith Reynolds	7/2518	7/5/17	VOR/DME RWY 15, Amdt 1C
17-Aug-17	LA	Shreveport	Shreveport Rgnl	7/2751	7/7/17	RNAV (GPS) RWY 24, AMDT 2
17-Aug-17	LA	Alexandria	Alexandria Intl	7/3442	7/5/17	RNAV (GPS) RWY 14, Amdt 1

17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/3449	7/5/17	RNAV (GPS) Y RWY 27, Orig-A
17-Aug-17	KS	Wichita	Wichita Dwight D Eisenhower National	7/3451	6/29/17	RNAV (GPS) RWY 1R, Amdt 2
17-Aug-17	KS	Wichita	Wichita Dwight D Eisenhower National	7/3452	6/29/17	RNAV (GPS) Y RWY 19R, Amdt 1A
17-Aug-17	IN	Evansville	Evansville Rgnl	7/4198	7/5/17	RNAV (GPS) RWY 22, Amdt 1A
17-Aug-17	AR	Rogers	Rogers Executive - Carter Field	7/5115	7/7/17	RNAV (GPS) RWY 20, Amdt 1A
17-Aug-17	AR	Rogers	Rogers Executive - Carter Field	7/5116	7/7/17	VOR RWY 2, Amdt 13D
17-Aug-17	NC	Fayetteville	Fayetteville Rgnl/Grannis Field	7/5271	7/5/17	RNAV (GPS) RWY 4, Amdt 3A
17-Aug-17	AK	Igiugig	Igiugig	7/5822	7/5/17	RNAV (GPS) RWY 5, Orig-B
17-Aug-17	AK	Igiugig	Igiugig	7/5823	7/5/17	RNAV (GPS) RWY 23, Orig-B
17-Aug-17	IN	Indianapolis	Indianapolis Metropolitan	7/5836	7/5/17	NDB RWY 15, Amdt 2A
17-Aug-17	IN	Indianapolis	Indianapolis Metropolitan	7/5837	7/5/17	RNAV (GPS) RWY 15, Amdt 1
17-Aug-17	IN	Indianapolis	Indianapolis Metropolitan	7/5838	7/5/17	RNAV (GPS) RWY 33, Amdt 1
17-Aug-17	IN	Indianapolis	Indianapolis Metropolitan	7/5839	7/5/17	VOR RWY 33, Amdt 10B
17-Aug-17	MI	Saginaw	MBS Intl	7/6134	7/5/17	RNAV (GPS) RWY 5, Amdt 1
17-Aug-17	MI	Muskegon	Muskegon County	7/6136	7/5/17	RNAV (GPS) RWY 32, Amdt 2A
17-Aug-17	MO	Kansas City	Kansas City Intl	7/6137	7/5/17	RNAV (GPS) Y RWY 27, Amdt 2A
17-Aug-17	MS	Meridian	Key Field	7/6138	7/5/17	RNAV (GPS) RWY 1, Amdt 3A
17-Aug-17	MA	New Bedford	New Bedford Rgnl	7/6203	7/5/17	RNAV (GPS) RWY 5, Amdt 1A
17-Aug-17	CA	Santa Rosa	Charles M Schulz - Sonoma County	7/6204	7/5/17	RNAV (GPS) RWY 32, Amdt 1B
17-Aug-17	MA	Vineyard Haven	Martha's Vineyard	7/6206	7/5/17	RNAV (GPS) RWY 24, Amdt 2C
17-Aug-17	WA	Bellingham	Bellingham Intl	7/6210	7/7/17	RNAV (GPS) Y RWY 16, Amdt 3
17-Aug-17	CA	Los Angeles	Los Angeles Intl	7/6408	7/5/17	RNAV (GPS) Y RWY 6R, Amdt 2
17-Aug-17	WA	Pasco	Tri-Cities	7/6618	7/5/17	RNAV (GPS) Y RWY 21R, Amdt 2
17-Aug-17	OH	Wilmington	Wilmington Air Park	7/6620	7/5/17	RNAV (GPS) RWY 4L, Orig
17-Aug-17	RI	Providence	Theodore Francis Green State	7/6622	7/5/17	RNAV (GPS) Y RWY 23, Amdt 2

17-Aug-17	OH	Akron	Akron-Canton Rgnl	7/6624	7/6/17	RNAV (GPS) RWY 23, Orig-A
17-Aug-17	OH	Akron	Akron-Canton Rgnl	7/6628	7/6/17	RNAV (GPS) RWY 5, Orig-A
17-Aug-17	OH	Akron	Akron-Canton Rgnl	7/6630	7/6/17	RNAV (GPS) RWY 19, Orig
17-Aug-17	CA	San Francisco	San Francisco Intl	7/6632	6/29/17	RNAV (GPS) RWY 28L, Amdt 5A
17-Aug-17	CA	San Francisco	San Francisco Intl	7/6636	6/29/17	RNAV (GPS) Z RWY 28R, Amdt 5A
17-Aug-17	MI	Three Rivers	Three Rivers Muni Dr Haines	7/6809	7/10/17	RNAV (GPS) RWY 27, Orig-B
17-Aug-17	FL	Vero Beach	Vero Beach Muni	7/6938	6/29/17	Takeoff Minimums and Obstacle DP, Orig-A
17-Aug-17	TX	Midland	Midland Intl Air And Space Port	7/7019	6/29/17	VOR OR TACAN RWY 16R, Amdt 23B
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7074	07/11/17	LOC/DME-A, Amdt 9
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7076	07/11/17	RNAV (GPS) W RWY 26, Amdt 1
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7077	07/11/17	RNAV (GPS) X RWY 26, Amdt 1A
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7078	07/11/17	RNAV (RNP) Y RWY 26, Amdt 1A
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7080	07/11/17	RNAV (GPS) Y RWY 8, Amdt 1
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7082	07/11/17	RNAV (RNP) Z RWY 8, Amdt 1A
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7084	07/11/17	RNAV (RNP) Z RWY 26, Amdt 1A
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7085	07/11/17	VOR/DME-C, Amdt 3
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7086	07/11/17	ILS RWY 26, Amdt 3A
17-Aug-17	CO	Rifle	Garfield County Rgnl	7/7090	07/11/17	Takeoff Minimums and Obstacle DP, Amdt 10
17-Aug-17	TX	Bay City	Bay City Muni	7/7163	7/6/17	VOR-A, Amdt 4C
17-Aug-17	NY	Albany	Albany Intl	7/7368	7/5/17	RNAV (GPS) Y RWY 19, Amdt 2
17-Aug-17	WA	Spokane	Spokane Intl	7/7390	6/29/17	RNAV (GPS) Y RWY 21, Amdt 2A
17-Aug-17	WA	Spokane	Spokane Intl	7/7391	6/29/17	RNAV (GPS) Y RWY 3, Amdt 2B
17-Aug-17	NC	Greensboro	Piedmont Triad Intl	7/8293	7/5/17	RNAV (GPS) RWY 5R, Amdt 2C
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8444	7/5/17	ILS OR LOC RWY 36, Amdt 9
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8445	7/5/17	ILS OR LOC RWY 6, Amdt 21B
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8446	7/5/17	RNAV (GPS) RWY 6, Amdt 2
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8447	7/5/17	RNAV (GPS) RWY 18, Amdt 1A

17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8448	7/5/17	RNAV (GPS) RWY 24, Amdt 1
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8449	7/5/17	RNAV (GPS) RWY 36, Amdt 3
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8450	7/5/17	LOC BC RWY 24, Amdt 19A
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8451	7/5/17	VOR-A, Orig-A
17-Aug-17	WI	Green Bay	Austin Straubel Intl	7/8452	7/5/17	RADAR 1, Amdt 9C
17-Aug-17	CA	Sacramento	Sacramento Intl	7/8500	7/5/17	RNAV (GPS) Y RWY 34L, Amdt 2
17-Aug-17	CA	Sacramento	Sacramento Intl	7/8510	7/5/17	RNAV (GPS) Y RWY 16R, Amdt 2A
17-Aug-17	CA	Oakland	Metropolitan Oakland Intl	7/8514	7/5/17	RNAV (GPS) Y RWY 30, Amdt 5B
17-Aug-17	CA	Oakland	Metropolitan Oakland Intl	7/8519	7/5/17	RNAV (GPS) Y RWY 12, Amdt 3
17-Aug-17	DC	Washington	Washington Dulles Intl	7/9191	7/6/17	RNAV (GPS) Y RWY 19L, Amdt 2A
17-Aug-17	DC	Washington	Washington Dulles Intl	7/9192	7/6/17	RNAV (GPS) RWY 1L, Orig-B
17-Aug-17	DC	Washington	Washington Dulles Intl	7/9195	7/6/17	RNAV (GPS) RWY 19R, Orig-A
17-Aug-17	DC	Washington	Washington Dulles Intl	7/9197	7/6/17	RNAV (GPS) Y RWY 1C, Amdt 1B
17-Aug-17	DC	Washington	Washington Dulles Intl	7/9199	7/6/17	RNAV (GPS) Y RWY 1R, Amdt 1B
17-Aug-17	DC	Washington	Washington Dulles Intl	7/9205	7/6/17	RNAV (GPS) Y RWY 19C, Amdt 3C
17-Aug-17	TX	Waco	Waco Rgnl	7/9683	7/6/17	RNAV (GPS) RWY 19, Orig-A
17-Aug-17	OH	Columbus	Rickenbacker Intl	7/9688	7/6/17	RNAV (GPS) RWY 5R, Amdt 1A
17-Aug-17	TX	Houston	William P Hobby	7/9693	7/5/17	RNAV (GPS) RWY 4, Amdt 3
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9714	7/5/17	RNAV (GPS) RWY 15, Amdt 2D
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9719	7/5/17	RNAV (GPS) RWY 22R, Amdt 2A
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9720	7/5/17	RNAV (GPS) RWY 27R, Amdt 3
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9722	7/5/17	RNAV (GPS) RWY 28C, Amdt 1
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9728	7/5/17	RNAV (GPS) RWY 28R, Amdt 4
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9729	7/5/17	RNAV (GPS) Z RWY 27L, Amdt 4
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9730	7/5/17	RNAV (GPS) PRM RWY 10C (CLOSE PARALLEL), Orig
17-Aug-17	IL	Chicago	Chicago O'Hare Intl	7/9732	7/5/17	RNAV (GPS) PRM RWY 28C, Orig

17-Aug-17	KS	Wichita	Wichita Dwight D Eisenhower National	7/9734	6/29/17	RNAV (GPS) Y RWY 1L, Amdt 1B
17-Aug-17	LA	New Orleans	Louis Armstrong New Orleans Intl	7/9736	7/5/17	RNAV (GPS) Y RWY 29, Amdt 4
17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/9738	6/29/17	RNAV (GPS) Y RWY 36C, Amdt 1B
17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/9743	6/29/17	RNAV (GPS) Y RWY 36L, Amdt 1B
17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/9744	6/29/17	RNAV (GPS) Y RWY 9, Amdt 1
17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/9772	6/29/17	RNAV (GPS) Y RWY 18C, Amdt 1B
17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/9775	6/29/17	RNAV (GPS) Y RWY 18L, Amdt 1B
17-Aug-17	KY	Covington	Cincinnati/Northern Kentucky Intl	7/9777	6/29/17	RNAV (GPS) Y RWY 18R, Amdt 1B
17-Aug-17	WI	Green Bay	Green Bay-Austin Straubel Intl	7/9784	7/13/17	Takeoff Minimums and Obstacle DP, Amdt 2

AIRAC Date: 17 AUGUST 2017

FDC **7/0247** YKM IAP YAKIMA AIR TERMINAL/MCALLISTER FIELD, Yakima, WA. RNAV (GPS) X RWY 27, AMDT 1B... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) X RWY 27, AMDT 1C. 1706271353-PERM

FDC **7/0382** BWI IAP BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL, Baltimore, MD. RNAV (GPS) Y RWY 28, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 28, AMDT 2B. 1706271516-PERM

FDC **7/0387** BWI IAP BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL, Baltimore, MD. RNAV (GPS) Y RWY 15R, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 15R, AMDT 2A. 1706271518-PERM

FDC **7/0391** IND IAP INDIANAPOLIS INTL, Indianapolis, IN. RNAV (GPS) Y RWY 5L, AMDT 4... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 5L, AMDT 4A. 1706271523-PERM

FDC **7/0394** IND IAP INDIANAPOLIS INTL, Indianapolis, IN. RNAV (GPS) Y RWY 5R, AMDT 4... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 5R, AMDT 4A. 1706271525-PERM

FDC **7/0707** ILN IAP WILMINGTON AIR PARK, Wilmington, OH. RNAV (GPS) RWY 22R, ORIG... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT LYMEE AND RIGHT TURN ON TRACK 320 TO TIGRR AND HOLD. THIS IS RNAV (GPS) RWY 22R, ORIG-A. 1706271704-PERM

FDC **7/0708** SJC IAP NORMAN Y MINETA SAN JOSE INTL, San Jose, CA. RNAV (GPS) Y RWY 30L, AMDT 3A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 30L, AMDT 3B. 1706271704-PERM

FDC **7/0710** BIS IAP BISMARCK MUNI, Bismarck, ND. RNAV (GPS) RWY 31, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK CHART NOTE: RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.. THIS IS RNAV (GPS) RWY 31, AMDT 1B. 1706271707-PERM

FDC **7/0711** TUL IAP TULSA INTL, Tulsa, OK. RNAV (GPS) RWY 36R, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 36R, AMDT 1C. 1706271709-PERM

FDC **7/0717** MYR IAP MYRTLE BEACH INTL, Myrtle Beach, SC. RNAV (GPS) RWY 18, AMDT 4... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 18, AMDT 4A. 1706271712-PERM

FDC **7/0718** CHS IAP CHARLESTON AFB/INTL, Charleston, SC. RNAV (GPS) Y RWY 15, AMDT 3B... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 15, AMDT 3C. 1706271712-PERM

FDC **7/0723** FTW IAP FORT WORTH MEACHAM INTL, Fort Worth, TX. RNAV (GPS) RWY 16, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 16, AMDT 1B. 1706271714-PERM

FDC **7/0724** CAE IAP COLUMBIA METROPOLITAN, Columbia, SC. RNAV (GPS) RWY 11, AMDT 1... LPV DA VISIBILITY RVR 1800 ALL CATS. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LEDAS VIA V311 NORTHWEST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LEDAS ON V311 NORTHWEST BOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WIDER VIA V53 NORTHWEST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WIDER ON V53 NORTHWEST BOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SAMMI VIA V56 WESTBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SAMMI ON V56 WESTBOUND. THIS IS RNAV (GPS) RWY 11, AMDT 1A. 1706271715-PERM

FDC **7/0725** BNA IAP NASHVILLE INTL, Nashville, TN. RNAV (GPS) Y RWY 20L, AMDT 2A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 20L, AMDT 2B. 1706271716-PERM

FDC **7/0726** DAL IAP DALLAS LOVE FIELD, Dallas, TX. RNAV (GPS) Z RWY 13L, AMDT 3... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Z RWY 13L, AMDT 3A. 1706271718-PERM

FDC **7/0727** ABI IAP ABILENE RGNL, Abilene, TX. RNAV (GPS) RWY 35R, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 35R, AMDT 1B. 1706271718-PERM

FDC **7/0737** MEM IAP MEMPHIS INTL, Memphis, TN. RNAV (GPS) RWY 27, AMDT 2B... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 27, AMDT 2C. 1706271723-PERM

FDC **7/0740** CRP IAP CORPUS CHRISTI INTL, Corpus Christi, TX. RNAV (GPS) Y RWY 13, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 13, AMDT 2A. 1706271725-PERM

FDC **7/0750** PWM IAP PORTLAND INTL JETPORT, Portland, ME. RNAV (GPS) RWY 29, AMDT 3... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 29, AMDT 3A. 1706271731-PERM

FDC **7/0761** DTW IAP DETROIT METROPOLITAN WAYNE COUNTY, Detroit, MI. RNAV (GPS) RWY 21L, AMDT 3... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 21L, AMDT 3A. 1706271735-PERM

FDC **7/0913** IND IAP INDIANAPOLIS INTL, Indianapolis, IN. RNAV (GPS) Y RWY 14, AMDT 4... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 14, AMDT 4A. 1706271813-PERM

FDC **7/0921** IND IAP INDIANAPOLIS INTL, Indianapolis, IN. RNAV (GPS) Y RWY 23L, AMDT 4... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 23L, AMDT 4A. 1706271816-PERM

FDC **7/0922** IND IAP INDIANAPOLIS INTL, Indianapolis, IN. RNAV (GPS) Y RWY 23R, AMDT 4... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 23R, AMDT 4A. 1706271817-PERM

FDC **7/0927** IND IAP INDIANAPOLIS INTL, Indianapolis, IN. RNAV (GPS) Y RWY 32, AMDT 4... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 32, AMDT 4A. 1706271819-PERM

FDC **7/0930** CAE IAP COLUMBIA METROPOLITAN, Columbia, SC. RNAV (GPS) RWY 29, AMDT 1... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COINT VIA V56 EASTBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COINT ON V56 EASTBOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADCOM VIA V53 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADCOM ON V53 SOUTHEAST BOUND. THIS IS RNAV (GPS) RWY 29, AMDT 1A. 1706271823-PERM

FDC **7/0940** FNT IAP BISHOP INTL, Flint, MI. RNAV (GPS) RWY 9, AMDT 1... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT JUBUG AND ON TRACK 099 TO KATTY AND HOLD. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FNT VORTAC VIA AIRWAY RADIALS 234 CW TO 286. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FNT VORTAC AIRWAY RADIALS 234 CW TO 286. THIS IS RNAV (GPS) RWY 9, AMDT 1A. 1706271827-PERM

FDC **7/0944** RIC IAP RICHMOND INTL, Richmond, VA. RNAV (GPS) Z RWY 16, AMDT 1B... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Z RWY 16, AMDT 1C. 1706271829-PERM

FDC **7/1217** BLV IAP SCOTT AFB/MIDAMERICA, Belleville, IL. RNAV (GPS) RWY 32R, ORIG-C... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 32R, ORIG-D. 1706281317-PERM

FDC **7/1218** FWA IAP FORT WAYNE INTL, Fort Wayne, IN. RNAV (GPS) RWY 32, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 32, AMDT 1B. 1706281321-PERM

FDC **7/1228** GYY IAP GARY/CHICAGO INTL, Gary, IN. RNAV (GPS) Y RWY 30, AMDT 1... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 30, AMDT 1A. 1706281324-PERM

FDC **7/1338** JFK IAP JOHN F KENNEDY INTL, New York, NY. RNAV (GPS) Y RWY 31R, AMDT 2... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 31R, AMDT 2A. 1706131740-PERM

FDC **7/1343** CSV IAP CROSSVILLE MEMORIAL-WHITSON FIELD, Crossville, TN. RNAV (GPS) RWY 26, ORIG-A... LNAV MDA 2440/HAT 569 ALL CATS, VISIBILITY CAT C/D 1 5/8. CIRCLING CATS A/B/C MDA 2440/HAA 559, CAT D MDA 2540/HAA 639, VISIBILITY 2. CHART CIRCLING ICON. THIS IS RNAV (GPS) RWY 26, ORIG-B. 1706281409-PERM

FDC **7/1427** CNU IAP CHANUTE MARTIN JOHNSON, Chanute, KS. RNAV (GPS) RWY 36, ORIG--A... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: RWY 18, 36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE NOTE: NIGHT LANDING: RWY 36 NA. DELETE NOTE: HELICOPTER VISIBILITY BELOW 1 SM NOT AUTHORIZED.. THIS IS RNAV (GPS) RWY 36, ORIG-B. 1706281423-PERM

FDC **7/1979** MEM IAP MEMPHIS INTL, Memphis, TN. RNAV (GPS) Z RWY 18R, AMDT 2C... LPV DA VISIBILITY RVR 1800 ALL CATS.. THIS IS RNAV (GPS) Z RWY 18R, AMDT 2D. 1706141445-PERM

FDC **7/1998** DHN IAP DOTHAN RGNL, Dothan, AL. RNAV (GPS) RWY 32, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 32, AMDT 1B. 1706141502-PERM

FDC **7/2473** INT IAP SMITH REYNOLDS, Winston Salem, NC. ILS OR LOC RWY 33, AMDT 29C... CHART NOTE: CIRCLING RWY 4, 22 NA AT NIGHT. DELETE NOTE: NIGHT LANDING RWYS 15 AND 22 NA. THIS IS ILS OR LOC RWY 33, AMDT 29D. 1706291457-PERM

FDC **7/2484** INT IAP SMITH REYNOLDS, Winston Salem, NC. RNAV (GPS) RWY 33, ORIG-A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. CHART NOTE: CIRCLING RWY 4, 22 NA AT NIGHT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GSO VORTAC ON V103 NORTHBOUND AND V310 EASTBOUND. CHANGE MISSED APPROACH TO READ: CLIMB TO 3500 DIRECT CATSI AND ON 333.00 TRACK TO INCON AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500. DELETE NOTE: NIGHT LANDING RWYS 15 AND 22 NA. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT GSO VORTAC VIA V103 NORTHBOUND AND V310 EASTBOUND. THIS IS RNAV (GPS) RWY 33, ORIG-B. 1706291502-PERM

FDC **7/2514** INT IAP SMITH REYNOLDS, Winston Salem, NC. RNAV (GPS) RWY 15, AMDT 1A... CHART NOTE: CIRCLING RWY 4, 22 NA AT NIGHT. CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: NIGHT LANDING: RWY 4, 15 AND 22 NA. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 15, AMDT 1B. 1706291523-PERM

FDC **7/2518** INT IAP SMITH REYNOLDS, Winston Salem, NC. VOR/DME RWY 15, AMDT 1C ... CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: DME REQUIRED. CHART NOTE: CIRCLING RWY 4, 22 NA AT NIGHT. CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: NIGHT LANDING RWY 15, 22 NA. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS VOR RWY 15, AMDT 1D 1706291525-PERM

FDC **7/2751** SHV IAP SHREVEPORT RGNL, Shreveport, LA. RNAV (GPS) RWY 24, AMDT 2... DELETE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE 3.00/TCH 61). DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EIC VORTAC AIRWAY RADIALS 092 CW 199. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EIC VORTAC AIRWAY RADIALS 092 CW 239. THIS IS RNAV (GPS) RWY 24, AMDT 2A. 1706151157-PERM

FDC **7/3442** AEX IAP ALEXANDRIA INTL, Alexandria, LA. RNAV (GPS) RWY 14, AMDT 1... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 14, AMDT 1A. 1706161726-PERM

FDC **7/3449** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 27, ORIG-A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 27, ORIG-B. 1706161744-PERM

FDC **7/3451** ICT IAP WICHITA DWIGHT D EISENHOWER NATIONAL, Wichita, KS. RNAV (GPS) RWY 1R, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 1R, AMDT 2A. 1706161747-PERM

FDC **7/3452** ICT IAP WICHITA DWIGHT D EISENHOWER NATIONAL, Wichita, KS. RNAV (GPS) Y RWY 19R, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 19R, AMDT 1B. 1706161747-PERM

FDC **7/4198** EVV IAP EVANSVILLE RGNL, Evansville, IN. RNAV (GPS) RWY 22, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 22, AMDT 1B. 1706191512-PERM

FDC **7/5115** ROG IAP ROGERS EXECUTIVE - CARTER FIELD, Rogers, AR. RNAV (GPS) RWY 20, AMDT 1A... AIRPORT ELEV: 1359, TDZE: 1354. LPV DA 1604, LNAV/VNAV DA 1730, LNAV HAT 386, CIRCLING CAT A/B MDA 1820/HAA 461, CAT C/D MDA 2020/HAA 661, VIS CAT C 1 3/4. CHART CIRCLING ICON. PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). THIS IS RNAV (GPS) RWY 20, AMDT 1B. 1707051516-PERM

FDC **7/5116** ROG IAP ROGERS EXECUTIVE - CARTER FIELD, Rogers, AR. VOR RWY 2, AMDT 13D... AIRPORT ELEV: 1359, TDZE: 1359. S-2 HAT 741, CIRCLING HAA 741. DME MINIMUMS: S-2 HAT 441, CIRCLING CAT A/B MDA 1820/HAA 461, CAT C/D MDA 2020/HAA 661, VIS CAT C 1 3/4. CHART CIRCLING ICON. NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). THIS IS VOR RWY 2, AMDT 13E. 1707051516-PERM

FDC **7/5271** FAY IAP FAYETTEVILLE RGNL/GRANNIS FIELD, Fayetteville, NC. RNAV (GPS) RWY 4, AMDT 3A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 4, AMDT 3B. 1706202018-PERM

FDC **7/5822** IGG IAP IGIUGIG, Igiugig, AK. RNAV (GPS) RWY 5, ORIG-B... CIRCLING CAT A/B MDA 580/HAA 490. THIS IS RNAV (GPS) RWY 5, ORIG-C. 1706022043-PERM

FDC **7/5823** IGG IAP IGIUGIG, Igiugig, AK. RNAV (GPS) RWY 23, ORIG-B... CIRCLING CAT A/B MDA 580/HAA 490. THIS IS RNAV (GPS) RWY 23, ORIG-C. 1706022043-PERM

FDC **7/5836** UMP IAP INDIANAPOLIS METROPOLITAN, Indianapolis, IN. NDB RWY 15, AMDT 2A... S-15 CAT C VISIBILITY 2 1/2 SM. CIRCLING CAT C VISIBILITY 2 1/2 SM. CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS NDB RWY 15, AMDT 2B. 1706022104-PERM

FDC **7/5837** UMP IAP INDIANAPOLIS METROPOLITAN, Indianapolis, IN. RNAV (GPS) RWY 15, AMDT 1... CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 15, AMDT 1A. 1706022104-PERM

FDC **7/5838** UMP IAP INDIANAPOLIS METROPOLITAN, Indianapolis, IN. RNAV (GPS) RWY 33, AMDT 1... CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 33, AMDT 1A. 1706022104-PERM

FDC **7/5839** UMP IAP INDIANAPOLIS METROPOLITAN, Indianapolis, IN. VOR RWY 33, AMDT 10B... CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 15 NA AT NIGHT. THIS IS VOR RWY 33, AMDT 10C. 1706022104-PERM

FDC **7/6134** MBS IAP MBS INTL, Saginaw, MI. RNAV (GPS) RWY 5, AMDT 1... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 5, AMDT 1A. 1706211429-PERM

FDC **7/6136** MKG IAP MUSKEGON COUNTY, Muskegon, MI. RNAV (GPS) RWY 32, AMDT 2A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 32, AMDT 2B. 1706211431-PERM

FDC **7/6137** MCI IAP KANSAS CITY INTL, Kansas City, MO. RNAV (GPS) Y RWY 27, AMDT 2A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 27, AMDT 2B. 1706211433-PERM

FDC **7/6138** MEI IAP KEY FIELD, Meridian, MS. RNAV (GPS) RWY 1, AMDT 3A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 1, AMDT 3B. 1706211435-PERM

FDC **7/6203** EWB IAP NEW BEDFORD RGNL, New Bedford, MA. RNAV (GPS) RWY 5, AMDT 1A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 5, AMDT 1B. 1706211548-PERM

FDC **7/6204** STS IAP CHARLES M SCHULZ - SONOMA COUNTY, Santa Rosa, CA. RNAV (GPS) RWY 32, AMDT 1B... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 32, AMDT 1C. 1706211548-PERM

FDC **7/6206** MVY IAP MARTHA'S VINEYARD, Vineyard Haven, MA. RNAV (GPS) RWY 24, AMDT 2C... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 24, AMDT 2D. 1706211552-PERM

FDC **7/6210** BLI IAP BELLINGHAM INTL, Bellingham, WA. RNAV (GPS) Y RWY 16, AMDT 3... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 16, AMDT 3A. 1706211555-PERM

FDC **7/6408** LAX IAP LOS ANGELES INTL, Los Angeles, CA. RNAV (GPS) Y RWY 6R, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 6R, AMDT 2A. 1706211710-PERM

FDC **7/6618** PSC IAP TRI-CITIES, Pasco, WA. RNAV (GPS) Y RWY 21R, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 21R, AMDT 2A. 1706212019-PERM

FDC **7/6620** ILN IAP WILMINGTON AIR PARK, Wilmington, OH. RNAV (GPS) RWY 4L, ORIG... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 4L, ORIG-A. 1706212021-PERM

FDC **7/6622** PVD IAP THEODORE FRANCIS GREEN STATE, Providence, RI. RNAV (GPS) Y RWY 23, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 23, AMDT 2A. 1706212023-PERM

FDC **7/6624** CAK IAP AKRON-CANTON RGNL, Akron, OH. RNAV (GPS) RWY 23, ORIG-A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 23, ORIG-B. 1706212024-PERM

FDC **7/6628** CAK IAP AKRON-CANTON RGNL, Akron, OH. RNAV (GPS) RWY 5, ORIG-A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 5, ORIG-B. 1706212025-PERM

FDC **7/6630** CAK IAP AKRON-CANTON RGNL, Akron, OH. RNAV (GPS) RWY 19, ORIG... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 19, ORIG-A. 1706212026-PERM

FDC **7/6632** SFO IAP SAN FRANCISCO INTL, San Francisco, CA. RNAV (GPS) RWY 28L, AMDT 5A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 28L, AMDT 5B. 1706212029-PERM

FDC **7/6636** SFO IAP SAN FRANCISCO INTL, San Francisco, CA. RNAV (GPS) Z RWY 28R, AMDT 5A... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Z RWY 28R, AMDT 5B. 1706212031-PERM

FDC **7/6809** HAI IAP THREE RIVERS MUNI DR HAINES, Three Rivers, MI. RNAV (GPS) RWY 27, ORIG-B... DELETE PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE 4.00/TCH 34). DELETE PROFILE NOTE: DESCENT ANGLE NA WITH SOUTH BEND RGNL, IN ALTIMETER SETTING. DELETE DESCENT ANGLE 3.03/TCH 40. CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. THIS IS RNAV (GPS) RWY 27, ORIG-C. 1707071743-PERM

FDC **7/6938** VRB ODP VERO BEACH MUNI, VERO BEACH, FL. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES ORIG-A... DEPARTURE PROCEDURE CHANGE ALL REFERENCES FROM VERO BEACH MUNI TO VERO BEACH RGNL. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, ORIG-B. 1706221124-PERM

FDC **7/7019** MAF IAP MIDLAND INTL AIR AND SPACE PORT, Midland, TX. VOR OR TACAN RWY 16R, AMDT 23B... CIRCLING RWY 16L NA AT NIGHT. THIS IS VOR OR TACAN RWY 16R, AMDT 23C. 1706221148-PERM

FDC **7/7074** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. LOC/DME-A, AMDT 9... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS LOC/DME-A, AMDT 9A. 1706221206-PERM

FDC **7/7076** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. RNAV (GPS) W RWY 26, AMDT 1... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS RNAV (GPS) W RWY 26, AMDT 1A. 1706221206-PERM

FDC **7/7077** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. RNAV (GPS) X RWY 26, AMDT 1A... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS RNAV (GPS) X RWY 26, AMDT 1B. 1706221206-PERM

FDC **7/7078** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. RNAV (RNP) Y RWY 26, AMDT 1A... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS RNAV (RNP) Y RWY 26, AMDT 1B. 1706221206-PERM

FDC **7/7080** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. RNAV (GPS) Y RWY 8, AMDT 1... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS RNAV (GPS) Y RWY 8, AMDT 1A. 1706221206-PERM

FDC **7/7082** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. RNAV (RNP) Z RWY 8, AMDT 1A... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS RNAV (RNP) Z RWY 8, AMDT 1B. 1706221206-PERM

FDC **7/7084** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. RNAV (RNP) Z RWY 26, AMDT 1A... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS RNAV (RNP) Z RWY 26, AMDT 1B. 1706221206-PERM

FDC **7/7085** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. VOR/DME-C, AMDT 3... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS VOR/DME-C, AMDT 3A. 1706221206-PERM

FDC **7/7086** RIL IAP GARFIELD COUNTY RGNL, Rifle, CO. ILS RWY 26, AMDT 3A... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS ILS RWY 26, AMDT 3B. 1706221206-PERM

FDC **7/7090** RIL ODP GARFIELD COUNTY RGNL, Rifle, CO. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 10... CHANGE ALL REFERENCE TO GARFIELD COUNTY RGNL TO RIFLE GARFIELD COUNTY. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 10A. 1706221206-PERM

FDC **7/7163** BYY IAP BAY CITY MUNI, Bay City, TX. VOR-A, AMDT 4C... CHART MAP: OXUSY/PSX 26.32 DME FIX. DELETE MAP: OXUSY/PSX 23.32 DME FIX. THIS IS VOR-A, AMDT 4D. 1706221227-PERM

FDC **7/7368** ALB IAP ALBANY INTL, Albany, NY. RNAV (GPS) Y RWY 19, AMDT 2... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 19, AMDT 2A. 1706221420-PERM

FDC **7/7390** GEG IAP SPOKANE INTL, Spokane, WA. RNAV (GPS) Y RWY 21, AMDT 2A... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 21, AMDT 2B. 1706221421-PERM

FDC **7/7391** GEG IAP SPOKANE INTL, Spokane, WA. RNAV (GPS) Y RWY 3, AMDT 2B... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 3, AMDT 2C. 1706221422-PERM

FDC **7/8293** GSO IAP PIEDMONT TRIAD INTL, Greensboro, NC. RNAV (GPS) RWY 5R, AMDT 2C... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 5R, AMDT 2D. 1706231328-PERM

FDC **7/8444** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. ILS OR LOC RWY 36, AMDT 9... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS ILS OR LOC RWY 36, AMDT 9A. 1706081442-PERM

FDC **7/8445** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. ILS OR LOC RWY 6, AMDT 21B... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS ILS OR LOC RWY 6, AMDT 21C. 1706081442-PERM

FDC **7/8446** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. RNAV (GPS) RWY 6, AMDT 2... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS RNAV (GPS) RWY 6, AMDT 2A. 1706081442-PERM

FDC **7/8447** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. RNAV (GPS) RWY 18, AMDT 1A... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS RNAV (GPS) RWY 18, AMDT 1B. 1706081442-PERM

FDC **7/8448** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. RNAV (GPS) RWY 24, AMDT 1... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS RNAV (GPS) RWY 24, AMDT 1A. 1706081442-PERM

FDC **7/8449** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. RNAV (GPS) RWY 36, AMDT 3... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS RNAV (GPS) RWY 36, AMDT 3A. 1706081442-PERM

FDC **7/8450** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. LOC BC RWY 24, AMDT 19A... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS LOC BC RWY 24, AMDT 19B. 1706081442-PERM

FDC **7/8451** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. VOR-A, ORIG-A... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS VOR-A, ORIG-B. 1706081442-PERM

FDC **7/8452** GRB IAP AUSTIN STRAUBEL INTL, GREEN BAY, WI. RADAR 1, AMDT 9C... CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-AUSTIN STRAUBEL INTL. THIS IS RADAR 1, AMDT 9D. 1706081442-PERM

FDC **7/8500** SMF IAP SACRAMENTO INTL, Sacramento, CA. RNAV (GPS) Y RWY 34L, AMDT 2... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTRISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 34L, AMDT 2A. 1706081458-PERM

FDC **7/8510** SMF IAP SACRAMENTO INTL, Sacramento, CA. RNAV (GPS) Y RWY 16R, AMDT 2A... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 16R, AMDT 2B. 1706081504-PERM

FDC **7/8514** OAK IAP METROPOLITAN OAKLAND INTL, Oakland, CA. RNAV (GPS) Y RWY 30, AMDT 5B... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTRISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 30, AMDT 5C. 1706081506-PERM

FDC **7/8519** OAK IAP METROPOLITAN OAKLAND INTL, Oakland, CA. RNAV (GPS) Y RWY 12, AMDT 3... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTRISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 12, AMDT 3A. 1706081508-PERM

FDC **7/9191** IAD IAP WASHINGTON DULLES INTL, Washington, DC. RNAV (GPS) Y RWY 19L, AMDT 2A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTRISK, ASTERISK. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MULRR ON V139-143 NORTHEAST BOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MULRR VIA V139-143 NORTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRUZZ ON V4 WESTBOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRUZZ VIA V4 WESTBOUND. THIS IS RNAV (GPS) Y RWY 19L, AMDT 2B. 1706261232-PERM

FDC **7/9192** IAD IAP WASHINGTON DULLES INTL, Washington, DC. RNAV (GPS) RWY 1L, ORIG-B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CSN VORTAC ON V286 NORTHWEST BOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CSN VORTAC VIA V286 NORTHWEST BOUND. CHANGE MISSED APPROACH TO READ: CLIMB TO 4000 DIRECT COCAV AND ON 300 TRACK TO PRISM AND ON 346 TRACK TO MRB VORTAC AND HOLD. THIS IS RNAV (GPS) RWY 1L, ORIG-C. 1706261233-PERM

FDC **7/9195** IAD IAP WASHINGTON DULLES INTL, Washington, DC. RNAV (GPS) RWY 19R, ORIG-A... LPV DA VISIBILITY RVR 1800 ALL CATS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MULRR ON V139-143 NORTHEAST BOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MULRR VIA V139-143 NORTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRUZZ ON V4 WESTBOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRUZZ VIA V4 WESTBOUND. CHANGE MISSED APPROACH TO READ: CLIMB TO 5000 DIRECT HIMRA AND ON 280 TRACK TO OLIVR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. THIS IS RNAV (GPS) RWY 19R, ORIG-B. 1706261234-PERM

FDC **7/9197** IAD IAP WASHINGTON DULLES INTL, Washington, DC. RNAV (GPS) Y RWY 1C, AMDT 1B... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 1C, AMDT 1C. 1706261235-PERM

FDC **7/9199** IAD IAP WASHINGTON DULLES INTL, Washington, DC. RNAV (GPS) Y RWY 1R, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT FUREE AND ON 060 TRACK TO BLITZ AND HOLD. THIS IS RNAV (GPS) Y RWY 1R, AMDT 1C. 1706261236-PERM

FDC **7/9205** IAD IAP WASHINGTON DULLES INTL, Washington, DC. RNAV (GPS) Y RWY 19C, AMDT 3C... LPV DA VISIBILITY RVR 1800 ALL CATS. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRUZZ ON V4 WESTBOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRUZZ VIA V4 WESTBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MULRR ON V139-143 NORTHEAST BOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MULRR VIA V139-143 NORTHEAST BOUND. THIS IS RNAV (GPS) Y RWY 19C, AMDT 3D. 1706261237-PERM

FDC **7/9683** ACT IAP WACO RGNL, Waco, TX. RNAV (GPS) RWY 19, ORIG-A... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) RWY 19, ORIG-B. 1706261803-PERM

FDC **7/9688** LCK IAP RICKENBACKER INTL, Columbus, OH. RNAV (GPS) RWY 5R, AMDT 1A... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 5R, AMDT 1B. 1706261815-PERM

FDC **7/9693** HOU IAP WILLIAM P HOBBY, Houston, TX. RNAV (GPS) RWY 4, AMDT 3... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 4, AMDT 3A. 1706261818-PERM

FDC **7/9714** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) RWY 15, AMDT 2D... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 15, AMDT 2E. 1706261822-PERM

FDC **7/9719** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) RWY 22R, AMDT 2A... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 22R, AMDT 2B. 1706261827-PERM

FDC **7/9720** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) RWY 27R, AMDT 3... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 27R, AMDT 3A. 1706261830-PERM

FDC **7/9722** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) RWY 28C, AMDT 1... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 28C, AMDT 1A. 1706261833-PERM

FDC **7/9728** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) RWY 28R, AMDT 4... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) RWY 28R, AMDT 4A. 1706261835-PERM

FDC **7/9729** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) Z RWY 27L, AMDT 4... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Z RWY 27L, AMDT 4A. 1706261837-PERM

FDC **7/9730** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) PRM RWY 10C (CLOSE PARALLEL), ORIG... LPV DA VISIBILITY RVR 1800 ALL CATS.. THIS IS RNAV (GPS) PRM RWY 10C (CLOSE PARALLEL), ORIG-A. 1706261841-PERM

FDC **7/9732** ORD IAP CHICAGO O'HARE INTL, Chicago, IL. RNAV (GPS) PRM RWY 28C, ORIG... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) PRM RWY 28C, ORIG-A. 1706261843-PERM

FDC **7/9734** ICT IAP WICHITA DWIGHT D EISENHOWER NATIONAL, Wichita, KS. RNAV (GPS) Y RWY 1L, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. THIS IS RNAV (GPS) Y RWY 1L, AMDT 1C. 1706261918-PERM

FDC **7/9736** MSY IAP LOUIS ARMSTRONG NEW ORLEANS INTL, New Orleans, LA. RNAV (GPS) Y RWY 29, AMDT 4... CHART NOTE: ASTERISK, ASTERISK RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHANGE LPV DA TO LPV DA ASTERISK, ASTERISK. THIS IS RNAV (GPS) Y RWY 29, AMDT 4A. 1706261920-PERM

FDC **7/9738** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 36C, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT LOGOZ AND ON 005 TRACK TO NEATS AND HOLD. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DARKS VIA V97 SOUTHBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DARKS ON V97 SOUTHBOUND. DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FLM VOR/DME VIA V517 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FLM VOR/DME ON V517 SOUTHEAST BOUND. THIS IS RNAV (GPS) Y RWY 36C, AMDT 1C. 1706261930-PERM

FDC **7/9743** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 36L, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT KRTHY AND ON 327 TRACK TO BATHY AND HOLD. THIS IS RNAV (GPS) Y RWY 36L, AMDT 1C. 1706261933-PERM

FDC **7/9744** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 9, AMDT 1... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT BLOCK AND ON 134 TRACK TO CALIF AND HOLD. THIS IS RNAV (GPS) Y RWY 9, AMDT 1A. 1706261935-PERM

FDC **7/9772** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 18C, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT JITEV AND ON 179 TRACK TO ZIRKE AND HOLD. THIS IS RNAV (GPS) Y RWY 18C, AMDT 1C. 1706261958-PERM

FDC **7/9775** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 18L, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT LAPER AND ON 134 TRACK TO FLM VOR/DME AND HOLD. THIS IS RNAV (GPS) Y RWY 18L, AMDT 1C. 1706262000-PERM

FDC **7/9777** CVG IAP CINCINNATI/NORTHERN KENTUCKY INTL, Covington, KY. RNAV (GPS) Y RWY 18R, AMDT 1B... LPV DA VISIBILITY RVR 1800 ALL CATS. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 DIRECT BEPEE AND ON 266 TRACK TO AVIEW AND HOLD. THIS IS RNAV (GPS) Y RWY 18R, AMDT 1C. 1706262002-PERM

FDC **7/9784** GRB ODP GREEN BAY-AUSTIN STRAUBEL INTL, Green Bay, WI.
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 2...
CHANGE AIRPORT NAME FROM AUSTIN STRAUBEL INTL TO GREEN BAY-
AUSTIN STRAUBEL INTL. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES, AMDT 2A. 1707121931-PERM