

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 13-24

October 11, 2013

**PREPARED BY THE PRODUCT SUPPORT GROUP, AJV-34
(AVAILABLE ON THE WEB AT [HTTP://NFDC.FAA.GOV](http://NFDC.FAA.GOV))**

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

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [30925](#); Amdt. No. [3560](#)]

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 revokes 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 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 ² DATE OF PUBLICATION IN THE
FEDERAL REGISTER].

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

For Examination-

1. FAA Rules Docket, FAA Headquarters Building,
800 Independence Avenue, SW., Washington, DC 20591;
2. The FAA Regional Office of the region in which the
affected airport is located;
3. The National Flight Procedures Office, 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 <http://www.nfdc.faa.gov>
to register. Additionally, individual SIAP and Takeoff Minimums
and ODP copies may be obtained from:

1. FAA Public Inquiry Center (APA-200), FAA Headquarters
Building, 800 Independence Avenue, SW., Washington, DC 20591; or
2. The FAA Regional Office of the region in which the
affected airport is located.

FOR FURTHER INFORMATION CONTACT: Richard A. Dunham III, 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 revoking SIAPS, Takeoff Minimums and/or ODPS. The complete regulators 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, in addition to their complex nature and the need for a special format make publication in the Federal Register expensive and impractical. Furthermore, airmen do not use the regulatory text of the SIAPs, Takeoff Minimums or ODPs, but instead refer to their depiction on charts printed by publishers of aeronautical materials. The advantages of incorporation by reference are realized and publication of the complete description of each SIAP, Takeoff Minimums and ODP listed on FAA forms is unnecessary. This amendment provides the affected CFR sections and specifies the types of SIAPs and the effective dates of the, associated Takeoff Minimums and ODPs. This amendment also identifies the airport and its location, the procedure, and the amendment number.

THE RULE

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP, Takeoff Minimums and ODP as contained 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 which 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 procedures before adopting these SIAPS, Takeoff Minimums and ODPS are impracticable and contrary to the public interest and, where applicable, that good cause exists for making some SIAPs effective in less than 30 days.

CONCLUSION

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, and Navigation (Air).

Issued in Washington, DC on [OCTOBER 11, 2013](#).

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

John 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 revoking Standard Instrument Approach Procedures and/or Takeoff Minimums and/or Obstacle Departure Procedures effective at 0902 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(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

Effective 14 NOVEMBER 2013

Indianapolis, IN, Indianapolis Executive, VOR/DME RWY 36, Amdt 9A
 Cape Girardeau, MO, Cape Girardeau Rgnl, VOR RWY 10, AMDT 3A
 Fayetteville, NC, Fayetteville Rgnl/Grannis Field, RNAV (GPS) RWY 4, Amdt 3
 Fayetteville, NC, Fayetteville Rgnl/Grannis Field, RNAV (GPS) RWY 22, Amdt 5

Effective 12 DECEMBER 2013

Red Bluff, CA, Red Bluff Muni, RNAV (GPS) RWY 15, Amdt 1
 Red Bluff, CA, Red Bluff Muni, VOR/DME RWY 15, Amdt 8
 Savanna, IL, Tri-Township, RNAV (GPS) RWY 13, Orig-A
 Rocky Mount, NC, Rocky Mount-Wilson Rgnl, RNAV (GPS) RWY 4, Amdt 2
 Rocky Mount, NC, Rocky Mount-Wilson Rgnl, RNAV (GPS) RWY 22, Amdt 2
 Fremont, NE, Fremont Muni, RNAV (GPS) RWY 14, Amdt 2
 Fremont, NE, Fremont Muni, RNAV (GPS) RWY 32, Orig
 Fremont, NE, Fremont Muni, Takeoff Minimums and Obstacle DP, Amdt 6A
 Fremont, NE, Fremont Muni, VOR/DME RWY 14, Amdt 3
 Norwich, NY, Lt Warren Eaton, VOR/DME-A, Amdt 4, CANCELED
 Oneonta, NY, Oneonta Muni, LOC RWY 24, Amdt 2B
 Columbus, OH, Port Columbus Intl, ILS OR LOC RWY 10R, ILS RWY 10R (SA CAT I), ILS
 RWY 10R (SA CAT II), Amdt 9A
 Memphis, TN, Memphis Intl, ILS OR LOC RWY 27, Amdt 4
 Memphis, TN, Memphis Intl, RNAV (GPS) RWY 27, Amdt 2
 Memphis, TN, Memphis Intl, Takeoff Minimums and Obstacle DP, Amdt 4
 Coleman, TX, Coleman Muni, RNAV (GPS) RWY 33, Orig

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.

NOTES, (CONT.):

INCREASE ALL MDA 80 FT AND S-36 CAT C/D VISIBILITY 1/2 MILE.

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

QUALITY
1
CHECKED

CITY AND STATE

INDIANAPOLIS, IN

ELEVATION: 922

THRE: 922

AIRPORT NAME:

INDIANAPOLIS EXECUTIVE

FACILITY
IDENTIFIER:
VHP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR/DME RWY 36, AMDT 9A

14 NOVEMBER 2013

SUP: VOR RWY 36

AMDT: 9

DATED: 09/25/2008

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: CGI VOR/DME						
TAMMS INT/CNG 23.50 DME		CGI VOR/DME			269.59 / 16.24			2400			CLIMB TO 2200 THEN RIGHT TURN DIRECT CGI VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 016.04 INBOUND. CHART FAS OBST: 559 TREE 371243N/0893713W CHART VDP AT 1.76 DME; DISTANCE VDP TO THLD 1.32 MILES. CUNOP TO RW10: 3.15/40. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 4150 FROM THLD.						
1. PT <u> L </u> SIDE OF COURSE <u> 281.07 </u> OUTBOUND <u> 2200 </u> FT WITHIN <u> 10 </u> MILES OF <u> CGI VOR/DME </u> (IAF) 2. _____ 3. FAC <u> 101.07 </u> FAF _____ DIST FAF TO MAP _____ THLD _____ 4. MIN. ALT CUNOP/CGI 2.60 DME 1100* 8. MSA FROM: CGI VOR/DME 090-180 3000, 180-270 2200, 270-090 3500														MAG VAR: 2W		EPOCH YEAR: 2015	
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-10		1100	1/2	763	1100	3/4	763	1100	1 3/4	763	1100	1 3/4	763				
CIRCLING		1100	1	758	1100	1 1/4	758	1100	2 1/2	758	1100	2 1/2	758				
CUNOP FIX MINIMUMS (DME REQUIRED)																	
S-10		820	1/2	483	820	1/2	483	820	1	483	820	1	483				
CIRCLING		860	1	518	960	1	618	1000	1 3/4	658	1080	2 1/4	738				
NOTES: CHART NOTE: VDP NA WITH CAIRO RGNL ALTIMETER SETTING. *1160 WHEN USING CAIRO RGNL ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CAIRO RGNL ALTIMETER SETTING AND INCREASE ALL MDA 60 FT; INCREASE S-10 CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT A (SEE FORM 8260-10)																	
CITY AND STATE				ELEVATION: 342 THRE: 337				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP	
CAPE GIRARDEAU, MO				AIRPORT NAME:				CGI				VOR RWY 10, AMDT 3A 14 NOVEMBER 2013				AMDT 3	
				CAPE GIRARDEAU RGNL												DATE 06/27/2013	

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

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

NOTES, (CONT.):

AND D VISIBILITY 1/4 MILE; INCREASE CUNOP FIX MINIMUMS S-10 CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C/D VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-10 CAT C/D VISIBILITY 3/4 MILE AND CUNOP FIX MINIMUMS S-10 CAT C/D VISIBILITY 3/8 MILE.

CHART NOTE: WHEN USING CAIRO RGNL ALTIMETER SETTING, FOR INOPERATIVE MALSR, INCREASE S-10 CAT C/D VISIBILITY 5/8 MILE.

CITY AND STATE

CAPE GIRARDEAU, MO

ELEVATION: 342

THRE: 337

AIRPORT NAME:

CAPE GIRARDEAU RGNL

FACILITY
IDENTIFIER:

CGI

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR RWY 10, AMDT 3A

14 NOVEMBER 2013

SUP:

AMDT: 3

DATED: 06/27/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW04 CLIMB TO 2300 DIRECT UJORO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 218.25 INBOUND. CHART FAS OBST: 310 TRMSN TWR 345823N/0785415W DISTANCE TO THLD FROM 200 HATH: 0.48 NM. CHART VDP AT 0.99 MILES TO RW04* *LNAV ONLY. WAAS CHANNEL # 50111 REFERENCE PATH ID: W04A CHART R-5311 A-B-C CHART CIRCLING ICON. LTP HAE: 22.9 M											
ZODGI (IF/IAF)	CINLO (FB)	038.11 / 7.00	1900												
CINLO (FAF)	YISBU/1.80 NM TO RW04 (FB)	038.15 / 3.44													
YISBU/1.80 NM TO RW04	RW04 (MAP) (FO)	038.15 / 1.80													
RW04 (MAP)	385 MSL	038.15													
385 MSL	UJORO (FO)		2300												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SW ZODGI, RT, 038.11 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: 038.15 FAF: CINLO DIST FAF TO MAP: 5.24 THLD: 5.24 4. MIN. ALT: ZODGI 2300, CINLO 1900, YISBU/1.80 NM TO RW04 800* 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 1900 GS ALT AT: CINLO 1900 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 45.2 34:1 IS CLEAR 8. MSA FROM:				MAG VAR: 7W 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	385	2400	200	385	2400	200	385	2400	200	385	2400	200			
LNAV/VNAV DA	466	2400	281	466	2400	281	466	2400	281	466	2400	281			
LNAV MDA	560	2400	375	560	2400	375	560	3500	375	560	3500	375			
CIRCLING	640	1	451	640	1	451	860	2	671	860	2 1/4	671			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C (18F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000; INCREASE LNAV CATS C/D VISIBILITY TO RVR 5500.															
CITY AND STATE FAYETTEVILLE, NC		ELEVATION: 189 THRE: 185 AIRPORT NAME: FAYETTEVILLE RGNL/GRANNIS FIELD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 3 14 NOVEMBER 2013				SUP: AMDT: 2 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.

TAA

	FROM	TO	ALT
1.	308/30 CW 128/30 (NOPT)	ZODGI (IF/IAF) (FB)	2300
2.	128/30 CW 308/30	ZODGI (IF/IAF) (FO)	2300

QUALITY
6
CHECKED

CITY AND STATE
FAYETTEVILLE, NC

ELEVATION: 189 THRE: 185
AIRPORT NAME:
FAYETTEVILLE RGNL/GRANNIS FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 4, AMDT 3
14 NOVEMBER 2013

SUP:
AMDT: 2
DATED: 04/05/2012

**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 KFAY
RUNWAY RW04
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W04A
LTP/FTP LATITUDE 345908.7005N
LTP/FTP LONGITUDE 0785309.5135W
LTP/FTP ELLIPSOIDAL HEIGHT +00229
FPAP LATITUDE 350025.0500N
FPAP LONGITUDE 0785213.3500W
THRESHOLD CROSSING HEIGHT (TCH) 00045.2
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0584
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 35.0

CRC REMAINDER

EFABFA4B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K7
LTP ORTHOMETRIC HEIGHT +00565
FPAP ORTHOMETRIC HEIGHT +00565

QUALITY
6
CHECKED

CITY AND STATE FAYETTEVILLE, NC	ELEVATION: 189 THRE: 185 AIRPORT NAME: FAYETTEVILLE RGNL/GRANNIS FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 3 14 NOVEMBER 2013	SUP:
				AMDT: 2
				DATED: 04/05/2012

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

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KFAYK7FR04	AZODGI	010ZODGIK7EA0EE	AR	HF		03810040	+	02300	18000			A	JS
SUSAP KFAYK7FR04	R	010ZODGIK7EA0E	I	IF			+	02300	18000			A	JS
SUSAP KFAYK7FR04	R	020CINLOK7EA1E	F	051TF		03810070	+	01900				A	JS
SUSAP KFAYK7FR04	R	020CINLOK7EA2WALPV			ALNAV/VNAV							JS	
SUSAP KFAYK7FR04	R	021YISBUK7EA0E	S	031TF		03820034	V	0080000804		-300		A	JS
SUSAP KFAYK7FR04	R	030RW04 K7PGOGY	M	031TF		03820018		00231		-300		A	JS
SUSAP KFAYK7FR04	R	040	0	M	CA	0382	+	00385				A	JS
SUSAP KFAYK7FR04	R	050UJOROK7EA0EY		DF			+	02300				A	JS
SUSAP KFAYK7FR04	R	060UJOROK7EA0EE	R	HM		21830040	+	02300				A	JS

[illegible][illegible]

QUALITY
6
CHECKED

SUP:	
AMDT:	2
DATED:	04/05/2012

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ZODGI	ZODGI	010	IAF	HF	R	FO		038.1 (031.1T)	004.0	AA 02300	
		ZODGI	010	FACF	IF		FB				AA 02300	
		CINLO	020	FAF	TF		FB	0.5	038.1 (031.1T)	007.0	AA 01900	
		YISBU	021	SDF	TF		FB	0.3	038.2 (031.2T)	003.4	AA 00800	GS 00804
		RW04	030	MAP	TF		FO	0.3	038.2 (031.2T)	001.8	AT 00231	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		038.2 (031.2T)		AA 00385	
	UJORO	050		DF		FO				AA 02300	
	UJORO	060		HM	R	FO		218.3 (211.3T)	004.0	AA 02300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CINLO	N345439.11	W0785627.53	N3454.652	W07856.459
	UJORO	N351022.54	W0784452.83	N3510.376	W07844.881
	YISBU	N345736.15	W0785417.54	N3457.603	W07854.292
	ZODGI	N344839.12	W0790051.27	N3448.652	W07900.855
	RW04	N345908.70	W0785309.51	N3459.145	W07853.159

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00185	45

QUALITY
6
CHECKED

CITY AND STATE FAYETTEVILLE, NC	ELEVATION: 189	THRE: 185	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: FAYETTEVILLE RGNL/GRANNIS FIELD		RNAV	RNAV (GPS) RWY 4, AMDT 3	AMDT: 2
				14 NOVEMBER 2013	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: RW22 CLIMB TO 2300 DIRECT ZODGI AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 038.11 INBOUND. FAS OBST: 309 AAO 350255N/0785011W 349 AAO 350400N/0784752W DISTANCE TO THLD FROM 200 HATH: 0.47 NM. CHART VDP AT 1.11 MILES TO RW22* *LNAV ONLY. WAAS CHANNEL # 45511 REFERENCE PATH ID: W22A CHART R-5311 A-B-C CHART CIRCLING ICON. LTP HAE: 15.2 M					
UJORO (IF/IAF)		MORGY (FB)		218.25 / 6.99				1800							
MORGY (FAF)		RW22 (MAP) (FO)		218.21 / 5.00											
RW22 (MAP)		360 MSL		218.21											
360 MSL		ZODGI (FO)						2300							
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE UJORO, RT, 218.25 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: <u>218.21</u> FAF: <u>MORGY</u> DIST FAF TO MAP: <u>5.00</u> THLD: <u>5.00</u> 4. MIN. ALT: <u>UJORO 2300, MORGY 1800</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>1800</u> GS ALT AT: <u>MORGY 1800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>47.7</u> 34:1 IS CLEAR 8. MSA FROM: <u> </u>										MAG VAR: 7W 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	360	3/4	200	360	3/4	200	360	3/4	200	360	3/4	200			
LNAV/VNAV DA	470	1	310	470	1	310	470	1	310	470	1	310			
LNAV MDA	560	1	400	560	1	400	560	1 1/8	400	560	1 1/8	400			
CIRCLING	640	1	451	640	1	451	860	2	671	860	2 1/4	671			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -8C (18F) OR ABOVE 54C (130F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA.															
CITY AND STATE		ELEVATION: 189 THRE: 160		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
FAYETTEVILLE, NC		AIRPORT NAME:		FAYETTEVILLE RGNL/GRANNIS FIELD		RNAV (GPS) RWY 22, AMDT 5 14 NOVEMBER 2013				AMDT: 4					
										DATED 04/05/2012					



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.	128/30 CW 308/30 (NOPT)	128/20 CW 308/20	3200
2.	128/20 CW 308/20	UJORO (IF/IAF) (FB)	2300
3.	308/30 CW 128/30	UJORO (IF/IAF) (FO)	2300

QUALITY
6
CHECKED

CITY AND STATE

FAYETTEVILLE, NC

ELEVATION: 189

THRE: 160

AIRPORT NAME:

FAYETTEVILLE RGNL/GRANNIS FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 22, AMDT 5

14 NOVEMBER 2013

SUP:

AMDT: 4

DATED: 04/05/2012

**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	KFAY
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W22A
REFERENCE PATH IDENTIFIER (APPROACH ID)	350006.3055N
LTP/FTP LATITUDE	0785227.1465W
LTP/FTP LONGITUDE	+00152
LTP/FTP ELLIPSOIDAL HEIGHT	345849.9500N
FPAP LATITUDE	0785323.2900W
FPAP LONGITUDE	00047.7
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	0496
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	35.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

C5BB459E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00488
FPAP ORTHOMETRIC HEIGHT	+00488

CITY AND STATE

FAYETTEVILLE, NC

ELEVATION: 189

THRE: 160

AIRPORT NAME:

FAYETTEVILLE RGNL/GRANNIS FIELD

 FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 22, AMDT 5

14 NOVEMBER 2013

SUP:

AMDT: 4

DATED: 04/05/2012

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KFAYK7FR22	AUJORO	010UJOROK7EA0EE	AR	HF		21830040	+	02300	18000		A	JS
SUSAP	KFAYK7FR22	R	010UJOROK7EA0E	I	IF			+	02300	18000		A	JS
SUSAP	KFAYK7FR22	R	020MORGYK7EA1E	F	051TF		21830070	+	01800			A	JS
SUSAP	KFAYK7FR22	R	020MORGYK7EA2WALPV		ALNAV/VNAV ALNAV							JS	
SUSAP	KFAYK7FR22	R	030RW22 K7PG0GY	M	031TF		21820050		00208		-300	A	JS
SUSAP	KFAYK7FR22	R	040	0	M	CA	2182	+	00360			A	JS
SUSAP	KFAYK7FR22	R	050ZODGIK7EA0EY		DF			+	02300			A	JS
SUSAP	KFAYK7FR22	R	060ZODGIK7EA0EE	R	HM		03810040	+	02300			A	JS

[illegible][illegible]

QUALITY
6
CHECKED

SUP:	
AMDT:	4
DATED:	04/05/2012

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	UJORO	UJORO	010	IAF	HF	R	FO		218.3 (211.3T)	004.0	AA 02300	
		UJORO	010	FACF	IF		FB				AA 02300	
		MORGY	020	FAF	TF		FB	0.5	218.3 (211.3T)	007.0	AA 01800	
		RW22	030	MAP	TF		FO	0.3	218.2 (211.2T)	005.0	AT 00208	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		218.2 (211.2T)		AA 00360	
	ZODGI	050		DF		FO				AA 02300	
	ZODGI	060		HM	R	FO		038.1 (031.1T)	004.0	AA 02300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MORGY	N350423.34	W0784917.92	N3504.389	W07849.299
	UJORO	N351022.54	W0784452.83	N3510.376	W07844.881
	ZODGI	N344839.12	W0790051.27	N3448.652	W07900.855
	RW22	N350006.31	W0785227.15	N3500.105	W07852.453

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW22	00160	48

QUALITY
CHECKED

CITY AND STATE
FAYETTEVILLE, NC

ELEVATION: **189** THRE: **160**
 AIRPORT NAME:
FAYETTEVILLE RGNL/GRANNIS FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 5
 14 NOVEMBER 2013

SUP:
 AMDT: **4**
 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: RW15 CLIMB TO 3500 DIRECT TOWAN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 331.16 INBOUND. CHART FAS OBST: 520 TWR 401117N/1221603W 692 AAO 401416N/1221554W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 1.23 MILES TO RW15* *LNAV ONLY. WAAS CHANNEL # 73008 REFERENCE PATH ID: W15A LTP HAE: 77.1 M CHART CIRCLING ICON MAG VAR: 17E EPOCH YEAR: 1985									
RBL VORTAC		AXHEC (FO)		330.89 / 18.65				4500											
BEIRA (IAF)		AXHEC (NOPT) (FB)		131.61 / 7.56				4500											
ITMOR (IAF)		AXHEC (NOPT) (FB)		208.71 / 16.70				4500											
AXHEC (IF/IAF)		GEBXA (FB)		151.08 / 9.98				2000											
GEBXA (FAF)		VEBCU/2.00 NM TO RW15 (FB)		151.12 / 3.06															
VEBCU/2.00 NM TO RW15		RW15 (MAP) (FO)		151.12 / 2.00															
RW15 (MAP)		597 MSL		151.12															
597 MSL		TOWAN (FO)						3500											
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NW AXHEC, RT, 151.08 INBOUND, 4500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>151.12</u> FAF: <u>GEBXA</u> DIST FAF TO MAP: <u>5.06</u> THLD: <u>5.06</u> 4. MIN. ALT: AXHEC 4500, GEBXA 2000, VEBCU/2.00 NM TO RW15 1020* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2000</u> GS ALT AT: <u>GEBXA 2000</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW15 9300</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				
LPV DA	597	7/8	250	597	7/8	250	597	7/8	250	597	7/8	250							
LNAV/VNAV DA	650	1	303	650	1	303	650	1	303	650	1	303							
LNAV MDA	780	1	433	780	1	433	780	1 1/4	433	780	1 1/4	433							
CIRCLING	860	1	508	860	1	508	900	1 1/2	548	1060	2 1/4	708							
NOTES: CHART NOTE: CIRCLING TO RWY 33 NA AT NIGHT. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING REDDING ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5C (23F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)																			
CITY AND STATE		ELEVATION: 352 THRE: 347		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
RED BLUFF, CA		AIRPORT NAME: RED BLUFF MUNI				RNAV (GPS) RWY 15, AMDT 1				AMDT: ORIG									
						12 DECEMBER 2013				DATED 09/25/2008									

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 PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RBL VORTAC ON V195 EASTBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED; USE REDDING ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FEET AND INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE.

INCREASE LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE .



CITY AND STATE RED BLUFF, CA	ELEVATION: 352 THRE: 347 AIRPORT NAME: RED BLUFF MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 12 DECEMBER 2013	SUP:
				AMDT: ORIG
				DATED: 09/25/2008

**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	KRBL
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	400927.3860N
LTP/FTP LONGITUDE	1221515.1145W
LTP/FTP ELLIPSOIDAL HEIGHT	+00771
FPAP LATITUDE	400800.1300N
FPAP LONGITUDE	1221451.2200W
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	1096
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

381A798F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+01058
FPAP ORTHOMETRIC HEIGHT	+01058

CITY AND STATE

RED BLUFF, CA

ELEVATION: 352

THRE: 347

AIRPORT NAME:

RED BLUFF MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 15, AMDT 1

12 DECEMBER 2013

SUP:

AMDT:

ORIG

DATED:

09/25/2008



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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KRBLK2FR15	ABEIRA	010BEIRAK2EA0E	A	IF					18000		A	JS
SUSAP	KRBLK2FR15	ABEIRA	020AXHECK2EA0EE	B	010TF		13160076	+	04500			A	JS
SUSAP	KRBLK2FR15	AITMOR	010ITMORK2EA0E	A	IF					18000		A	JS
SUSAP	KRBLK2FR15	AITMOR	020AXHECK2EA0EE	B	010TF		20870167	+	04500			A	JS
SUSAP	KRBLK2FR15	ARBL	010RBL K2D 0V		IF					18000		A	JS
SUSAP	KRBLK2FR15	ARBL	020AXHECK2EA0EY		020TF		33090187	+	04500			A	JS
SUSAP	KRBLK2FR15	ARBL	030AXHECK2EA0EE	AR	HF		15110040	+	04500			A	JS
SUSAP	KRBLK2FR15	R	010AXHECK2EA0E	I	IF			+	04500	18000		A	JS
SUSAP	KRBLK2FR15	R	020GEBXAK2EA1E	F	051TF		15110100	+	02000		RW15 K2PGA	JS	
SUSAP	KRBLK2FR15	R	020GEBXAK2EA2WALPV			ALNAV/VNAV	ALNAV					JS	
SUSAP	KRBLK2FR15	R	021VEBCUK2EA0E	S	031TF		15110031	V	0102001024		-300	A	JS
SUSAP	KRBLK2FR15	R	030RW15 K2PGOGY	M	031TF		15110020		00387		-300	A	JS
SUSAP	KRBLK2FR15	R	040		0 M CA		1511	+	00597			A	JS
SUSAP	KRBLK2FR15	R	050TOWANK2EA0EY		DF			+	03500			A	JS
SUSAP	KRBLK2FR15	R	060TOWANK2EA0EE	R	HM		33120040	+	03500			A	JS

[illegible]

CITY AND STATE RED BLUFF, CA	ELEVATION: 352 THRE: 347 AIRPORT NAME: RED BLUFF MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 12 DECEMBER 2013	SUP:
				AMDT: ORIG
				DATED: 09/25/2008

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

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KRBLK2PR15	RW15 001 0000W15A0N4009273860W12215151145+007710300N4008001300W12214512200106751096000400F400500381A798F											
	SUSAP KRBLK2PR15	RW15 002E +01058+01058LPV 73008											

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KRBLK2SRW15 K2PG	0 18018009325	M										

QUALITY
4
CHECKED

CITY AND STATE RED BLUFF, CA	ELEVATION: 352 THRE: 347	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 12 DECEMBER 2013	SUP:
	AIRPORT NAME: RED BLUFF MUNI			AMDT: ORIG
				DATED: 09/25/2008

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

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BEIRA	BEIRA	010	IAF	IF		FB					
	BEIRA	AXHEC	020		TF		FB	1.0	131.6 (148.6T)	007.6	AA 04500	
	ITMOR	ITMOR	010	IAF	IF		FB					
	ITMOR	AXHEC	020		TF		FB	1.0	208.7 (225.7T)	016.7	AA 04500	
	RBL	RBL	010		IF		FB					
	RBL	AXHEC	020		TF		FO	2.0	330.9 (347.9T)	018.7	AA 04500	
	RBL	AXHEC	030	IAF	HF	R	FO		151.1 (168.1T)	004.0	AA 04500	
		AXHEC	010	FACF	IF		FB				AA 04500	
		GEBXA	020	FAF	TF		FB	0.5	151.1 (168.1T)	010.0	AA 02000	
		VEBCU	021	SDF	TF		FB	0.3	151.1 (168.1T)	003.1	AA 01020	GS 01024
		RW15	030	MAP	TF		FO	0.3	151.1 (168.1T)	002.0	AT 00387	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		151.1 (168.1T)		AA 00597	
	TOWAN	050		DF		FO				AA 03500	
	TOWAN	060		HM	R	FO		331.2 (348.2T)	004.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	RBL	N400556.08	W1221410.86	N4005.935	W12214.181
	AXHEC	N402411.13	W1221918.15	N4024.186	W12219.303
	BEIRA	N403038.54	W1222427.24	N4030.642	W12224.454
	GEBXA	N401424.97	W1221636.73	N4014.416	W12216.612
	ITMOR	N403552.35	W1220339.29	N4035.873	W12203.655
	TOWAN	N395237.05	W1221038.97	N3952.618	W12210.650
	VEBCU	N401124.92	W1221547.37	N4011.415	W12215.790
	RW15	N400927.39	W1221515.11	N4009.457	W12215.252

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW15	00347	40



CITY AND STATE RED BLUFF, CA	ELEVATION: 352 THRE: 347	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: RED BLUFF MUNI		RNAV (GPS) RWY 15, AMDT 1	AMDT: ORIG
			12 DECEMBER 2013	DATED: 09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: RBL 3.61 DME FIX									
RBL VORTAC		CABBE/9.00 DME			328.89 / 9.00			3000		CLIMB TO 2000 DIRECT RBL VORTAC AND HOLD.									
HOMAN/19.00 DME CCW (IAF)		GIBGE/19.00 DME (NOPT)			19.00 DME ARC			3000											
BEIRA/25.91 DME (IAF)		GIBGE/19.00 DME (NOPT)			100.00 / 2.69 (HDG) & 148.89 / 5.06 (RBL R-329)			3000											
GIBGE/19.00 DME (IF)		CABBE/9.00 DME			148.89 / 10.00 (RBL R-329)			2100											
										ADDITIONAL FLIGHT DATA: HOLD S, RT, 341.00 INBOUND. CHART FAS OBST: 629 TREE 401147N/1221733W CHART (CFFKB) AT INTERSECTION OF BEIRA DR LEG AND INTERMEDIATE COURSE. CHART RBL R-357 AT HOMAN. CABBE TO RW15: 2.99/40 810 AAO 401512N/1221656W CHART VDP AT 5.16 DME DISTANCE VDP TO THLD 1.55 MILES									
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																			
2. HOLD NW CABBE, LT, 148.89 INBOUND, 2100 FT. IN LIEU OF PT (IAF)																			
3. FAC 148.89 FAF CABBE/9.00 DME										DIST FAF TO MAP THLD 5.39									
4. MIN. ALT CABBE 2100, JABGU/RBL 5.80 DME 1080																			
8. MSA FROM: RBL VORTAC 360-090 7100, 090-180 5200, 180-270 9300, 270-360 5500										MAG VAR: 17E EPOCH YEAR: 1985									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @							
CATEGORY >>>>>	A			B			C			D			E						
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA				
S-15	880	1	533	880	1	533	880	1 1/2	533	880	1 1/2	533							
CIRCLING	880	1	528	880	1	528	900	1 1/2	548	1060	2 1/4	708							
NOTES:																			
CHART NOTE: CIRCLING TO RWY 33 NA AT NIGHT.										@ CAT D 800-2 1/4									
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE REDDING ALTIMETER SETTING AND INCREASE										@ NA WHEN LOCAL WEATHER NOT AVAILABLE.									
ALL MDAS 80 FEET AND ALL CAT C/D VISIBILITIES 1/4 MILE.																			
CHART NOTE: VDP NA WITH REDDING ALTIMETER SETTING.																			
CITY AND STATE RED BLUFF, CA				ELEVATION: 352 THRE: 347 AIRPORT NAME: RED BLUFF MUNI				FACILITY IDENTIFIER: RBL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 15, AMDT 8 12 DECEMBER 2013				SUP AMDT 7 DATE 09/25/2008					

PAGE 1 OF 6 PAGES

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
ZITSA/2.50 NM TO RW13	RW13 (MAP) (FO)	134.41 / 2.50	
RW13 (MAP)	1020 MSL	134.41	1020
1020 MSL	CONAT (FO)		3000

NOTES, (CONT.):

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOTTE ON V129 SOUTHBOUND AND V172 WESTBOUND.

CHART PROFILE NOTE: DESCENT ANGLE NA.

CITY AND STATE
 SAVANNA, IL

ELEVATION: 616 **THRE:** 612
AIRPORT NAME:
 TRI-TOWNSHIP

FACILITY IDENTIFIER:
 RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 13, ORIG-A
 12 DECEMBER 2013

SUP:
AMDT: ORIG
DATED: 05/31/2012



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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSFY
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	420259.1140N
LTP/FTP LONGITUDE	0900647.1845W
LTP/FTP ELLIPSOIDAL HEIGHT	+01535
FPAP LATITUDE	420155.5600N
FPAP LONGITUDE	0900523.3300W
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	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

C211B816

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01866
FPAP ORTHOMETRIC HEIGHT	+01866

CITY AND STATE

SAVANNA, IL

ELEVATION: 616

THRE: 612

AIRPORT NAME:

TRI-TOWNSHIP

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 13, ORIG-A

12 DECEMBER 2013

SUP:

AMDT: ORIG

DATED: 05/31/2012

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSFYK5FR13	ALOTTE	010LOTTEK3EA0E	IF						18000		A	JS
SUSAP	KSFYK5FR13	ALOTTE	020NORPYK3EA0E	A 020TF			02660161	+	03000			A	JS
SUSAP	KSFYK5FR13	ALOTTE	030CONATK3EA0EE	B 010TF			08890050	+	03000			A	JS
SUSAP	KSFYK5FR13	ATROST	010TROSTK5EA0E	A IF						18000		A	JS
SUSAP	KSFYK5FR13	ATROST	020CONATK3EA0EE	B 010TF			18000042	+	03000			A	JS
SUSAP	KSFYK5FR13	AWACKS	010WACKSK5EA0E	IF						18000		A	JS
SUSAP	KSFYK5FR13	AWACKS	020CONATK3EA0EY	020TF			27400105	+	03000			A	JS
SUSAP	KSFYK5FR13	AWACKS	030CONATK3EA0EE	AR HF			13440040	+	03000			A	JS
SUSAP	KSFYK5FR13	R	010CONATK3EA0E	I IF				+	03000	18000		A	JS
SUSAP	KSFYK5FR13	R	020ACEMIK3EA1E	F 051TF			13440050	+	02400		RW13	K5PGA	JS
SUSAP	KSFYK5FR13	R	020ACEMIK3EA2WALP		N	ALNAV							JS
SUSAP	KSFYK5FR13	R	021ZITSAK5EA0E	S 031TF			13440030	+	01440			A	JS
SUSAP	KSFYK5FR13	R	030RW13	K5PGOGY M 031TF			13440025		00960	000		A	JS
SUSAP	KSFYK5FR13	R	040	0 M CA			1344	+	01020			A	JS
SUSAP	KSFYK5FR13	R	050CONATK3EA0EY	R DF				+	03000			A	JS
SUSAP	KSFYK5FR13	R	060CONATK3EA0EE	R HM			13440040	+	03000			A	JS

[illegible][illegible]

CITY AND STATE SAVANNA, IL	ELEVATION: 616 THRE: 612	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: TRI-TOWNSHIP	RNAV	RNAV (GPS) RWY 13, ORIG-A	AMDT: ORIG
			12 DECEMBER 2013	DATED: 05/31/2012

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

SUSAP KSFYK5PR13 RW13 001 0000W13A0N4202591140W09006471845+015350000N4201555600W09005233300106751528000000F400000C211B816
SUSAP KSFYK5PR13 RW13 002E +01866+01866LP 61328

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

SUSAP KSFYK5SRW13 K5PG				0	18018002725							M	

CITY AND STATE
SAVANNA, IL

ELEVATION: 616 THRE: 612
AIRPORT NAME:
TRI-TOWNSHIP

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 13, ORIG-A
12 DECEMBER 2013

SUP:
AMDT: ORIG
DATED: 05/31/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	LOTTE	LOTTE	010		IF		FB					
	LOTTE	NORPY	020	IAF	TF		FB	2.0	026.6 (027.6T)	016.1	AA 03000	
	LOTTE	CONAT	030		TF		FB	1.0	088.9 (089.9T)	005.0	AA 03000	
	TROST	TROST	010	IAF	IF		FB					
	TROST	CONAT	020		TF		FB	1.0	180.0 (181.0T)	004.2	AA 03000	
	WACKS	WACKS	010		IF		FB					
	WACKS	CONAT	020		TF		FO	2.0	274.0 (275.0T)	010.5	AA 03000	
	WACKS	CONAT	030	IAF	HF	R	FO		134.4 (135.4T)	004.0	AA 03000	
		CONAT	010	FACF	IF		FB				AA 03000	
		ACEMI	020	FAF	TF		FB	0.5	134.4 (135.4T)	005.0	AA 02400	
		ZITSA	021	SDF	TF		FB	0.3	134.4 (135.4T)	003.0	AA 01440	
		RW13	030	MAP	TF		FO	0.3	134.4 (135.4T)	002.5	AT 00960	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		134.4 (135.4T)		AA 01020	
	CONAT	050		DF	R	FO				AA 03000	
	CONAT	060		HM	R	FO		134.4 (135.4T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ACEMI	N420652.51	W0901155.71	N4206.875	W09011.929
	CONAT	N421026.27	W0901639.10	N4210.438	W09016.652
	LOTTE	N415607.89	W0903324.79	N4156.132	W09033.413
	NORPY	N421026.15	W0902322.45	N4210.436	W09023.374
	TROST	N421439.17	W0901633.05	N4214.653	W09016.551
	WACKS	N420932.51	W0900237.87	N4209.542	W09002.631
	ZITSA	N420446.06	W0900908.44	N4204.768	W09009.141
	RW13	N420259.11	W0900647.18	N4202.985	W09006.786

RUNWAY DATA	THRESHOLD	TCH
RWY	ELEVATION	
RW13	00612	00

CITY AND STATE SAVANNA, IL	ELEVATION: 616	THRE: 612	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 13, ORIG-A	AMDT: ORIG
	TRI-TOWNSHIP	RNAV	12 DECEMBER 2013	DATED: 05/31/2012	

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: RW04 CLIMB TO 2500 DIRECT FENIM AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 222.39 INBOUND. CHART FAS OBST: 280 TREE 355018N/0775452W DISTANCE TO THLD FROM 250 HATH: 0.61 NM. CHART VDP AT 1.11 MILES TO RW04* *LNAV ONLY. WAAS CHANNEL # 56513 REFERENCE PATH ID: W04A CHART CIRCLING ICON. CHART WILSON INDUSTRIAL AIR CENTER. LTP HAE: 13.3 M								
CUMIV (IAF)	NERYO (NOPT) (FB)	312.33 / 10.00	2700									
AYIVI (IAF)	NERYO (NOPT) (FB)	132.13 / 10.00	2700									
NERYO (IF/IAF)	BUGAY (FB)	042.23 / 6.80	2100									
BUGAY (FAF)	RW04 (MAP) (FO)	042.25 / 5.92										
RW04 (MAP)	408 MSL	042.25										
408 MSL	FENIM (FO)		2500									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SW NERYO, RT, 042.23 INBOUND, 2700 FT. IN LIEU OF PT (IAF) 3. FAC: <u>042.25</u> FAF: <u>BUGAY</u> DIST FAF TO MAP: <u>5.92</u> THLD: <u>5.92</u> 4. MIN. ALT: <u>NERYO 2700, BUGAY 2100</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>BUGAY 2100</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>56.2</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 9W EPOCH YEAR: 2005								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		STANDARD @						
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	408	3/4	250	408	3/4	250	408	3/4	250	408	3/4	250
LNAV/VNAV DA	542	3/4	384	542	3/4	384	542	3/4	384	542	3/4	384
LNAV MDA	560	3/4	402	560	3/4	402	560	3/4	402	560	3/4	402
CIRCLING	600	1	442	620	1	462	720	1 1/2	562	760	2	602
NOTES: CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV WHEN USING LOCAL ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10C (14F) OR ABOVE 54C (130F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAYNE EXECUTIVE JETPORT ALTIMETER (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 158 THRE: 158		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
ROCKY MOUNT, NC		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 4, AMDT 2			AMDT: 1A			
		ROCKY MOUNT-WILSON RGNL				12 DECEMBER 2013			DATED 06/02/2011			



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

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NOTES, (CONT.):

SETTING AND INCREASE LPV DA TO 467; INCREASE LNAV/VNAV DA TO 601 AND ALL CATS VISIBILITY 1/4 MILE; INCREASE ALL MDA 60 FEET AND LNAV CATS C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT A/B VISIBILITY TO 1 MILE.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING WAYNE EXECUTIVE JETPORT ALTIMETER SETTING.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	312/30 CW 132/30 (NOPT)	312/10 CW 132/10	3400
2.	312/10 CW 132/10	NERYO (IF/IAF) (FB)	2700
3.	132/30 CW 222/30	AYIVI (IAF) (FB)	3400
4.	222/30 CW 312/30	CUMIV (IAF) (FB)	3400

QUALITY
4
CHECKED

CITY AND STATE
ROCKY MOUNT, NC

ELEVATION: 158 THRE: 158
AIRPORT NAME:
ROCKY MOUNT-WILSON RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 4, AMDT 2
12 DECEMBER 2013

SUP:
AMDT: 1A
DATED: 06/02/2011

**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	KRWI
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	355053.1560N
LTP/FTP LONGITUDE	0775354.6325W
LTP/FTP ELLIPSOIDAL HEIGHT	+00133
FPAP LATITUDE	355207.7400N
FPAP LONGITUDE	0775254.4600W
THRESHOLD CROSSING HEIGHT (TCH)	00056.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0584
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

74823B40

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00481
FPAP ORTHOMETRIC HEIGHT	+00481



CITY AND STATE ROCKY MOUNT, NC	ELEVATION: 158 THRE: 158	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 4, AMDT 2 12 DECEMBER 2013	SUP:
	AIRPORT NAME: ROCKY MOUNT-WILSON RGNL			AMDT: 1A
				DATED: 06/02/2011

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

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KRWIK7FR04	AAYIVI	010AYIVIK7EA0E	A	IF					18000		A	JS
SUSAP	KRWIK7FR04	AAYIVI	020NERYOK7EA0EE	B	010TF		13210100	+	02700			A	JS
SUSAP	KRWIK7FR04	ACUMIV	010CUMIVK7EA0E	A	IF					18000		A	JS
SUSAP	KRWIK7FR04	ACUMIV	020NERYOK7EA0EE	B	010TF		31230100	+	02700			A	JS
SUSAP	KRWIK7FR04	ANERYO	010NERYOK7EA0EE	AR	HF		04220040	+	02700		18000	A	JS
SUSAP	KRWIK7FR04	R	010NERYOK7EA0E	I	IF			+	02700		18000	A	JS
SUSAP	KRWIK7FR04	R	020BUGAYK7EA1E	F	051TF		04220068	+	02100			A	JS
SUSAP	KRWIK7FR04	R	020BUGAYK7EA2WALPV			ALNAV/VNAV	ALNAV					JS	
SUSAP	KRWIK7FR04	R	030RW04 K7PG0GY	M	031TF		04230059		00214	-300		A	JS
SUSAP	KRWIK7FR04	R	040	0	M	CA	0423	+	00408			A	JS
SUSAP	KRWIK7FR04	R	050FENIMK7EA0EY		DF			+	02500			A	JS
SUSAP	KRWIK7FR04	R	060FENIMK7EA0EE	R	HM		22240040	+	02500			A	JS

[illegible][illegible]

FAA FORM 8260 - 10 / April 2006 (Computer Generated) Page 4 of 5 Pages

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AYIVI	AYIVI	010	IAF	IF		FB					
	AYIVI	NERYO	020		TF		FB	1.0	132.1(123.1T)	010.0	AA 02700	
	CUMIV	CUMIV	010	IAF	IF		FB					
	CUMIV	NERYO	020		TF		FB	1.0	312.3(303.3T)	010.0	AA 02700	
	NERYO	NERYO	010	IAF	HF	R	FO		042.2(033.2T)	004.0	AA 02700	
		NERYO	010	FACF	IF		FB				AA 02700	
		BUGAY	020	FAF	TF		FB	0.5	042.2(033.2T)	006.8	AA 02100	
		RW04	030	MAP	TF		FO	0.3	042.3(033.3T)	005.9	AT 00214	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		042.3(033.3T)		AA 00408	
	FENIM	050		DF		FO				AA 02500	
	FENIM	060		HM	R	FO		222.4(213.4T)	004.0	AA 02500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AYIVI	N354542.73	W0781245.71	N3545.712	W07812.762
	BUGAY	N354555.60	W0775754.31	N3545.927	W07757.905
	CUMIV	N353444.14	W0775213.74	N3534.736	W07752.229
	FENIM	N360144.97	W0774507.26	N3601.750	W07745.121
	NERYO	N354013.88	W0780229.02	N3540.231	W07802.484
	RW04	N355053.16	W0775354.63	N3550.886	W07753.911

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00158	56

CITY AND STATE ROCKY MOUNT, NC	ELEVATION: 158	THRE: 158	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: ROCKY MOUNT-WILSON RGNL		RNAV	RNAV (GPS) RWY 4, AMDT 2	AMDT: 1A
				12 DECEMBER 2013	DATED: 06/02/2011

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW22 CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2500 DIRECT FENIM AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 287 TWR 355334N/0775145W DISTANCE TO THLD FROM 284 HATH: 0.73 NM. CHART VDP AT 1.16 MILES TO RW22* *LNAV ONLY. WAAS CHANNEL # 70435 REFERENCE PATH ID: W22A CHART WILSON INDUSTRIAL AIR CENTER CHART CIRCLING ICON LTP HAE: 11 M								
EYILI (IAF)	FENIM (NOPT) (FB)	132.29 / 9.90	2500									
CIXAK (IAF)	FENIM (NOPT) (FB)	312.49 / 9.90	2500									
FENIM (IF/IAF)	BONAC (FB)	222.39 / 6.80	1800									
BONAC (FAF)	BUDAY/2.40 NM TO RW22 (FB)	222.33 / 2.62										
BUDAY/2.40 NM TO RW22	RW22 (MAP) (FO)	222.33 / 2.40										
RW22 (MAP)	1000 MSL	222.33	1000									
1000 MSL	FENIM (FO)		2500									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE FENIM, RT, 222.39 INBOUND, 2500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>222.33</u> FAF: <u>BONAC</u> DIST FAF TO MAP: <u>5.02</u> THLD: <u>5.02</u> 4. MIN. ALT: <u>FENIM 2500, BONAC 1800, BUDAY/2.40 NM TO RW22 960*</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>1800</u> GS ALT AT: <u>BONAC 1800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>52.0</u> <u>34:1 IS NOT CLEAR</u> 8. MSA FROM: <u> </u>				MAG VAR: 9W EPOCH YEAR: 2005								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A								
				STANDARD @								
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	434	7/8	284	434	7/8	284	434	7/8	284	434	7/8	284
LNAV/VNAV DA	511	1 1/8	361	511	1 1/8	361	511	1 1/8	361	511	1 1/8	361
LNAV MDA	560	1	410	560	1	410	560	1 1/8	410	560	1 1/8	410
CIRCLING	600	1	442	620	1	462	720	1 1/2	562	760	2	602
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10C (14F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)												
CITY AND STATE ROCKY MOUNT, NC		ELEVATION: 158 THRE: 150 AIRPORT NAME: ROCKY MOUNT-WILSON RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 2 12 DECEMBER 2013				SUP: AMDT: 1 DATED 07/30/2009		

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

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NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING WAYNE EXECUTIVE JETPORT ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAYNE EXECUTIVE JETPORT ALTIMETER SETTING AND INCREASE ALL DA 59 FEET AND ALL VISIBILITIES 1/4 MILE; INCREASE ALL MDA 60 FEET AND LNAV CATS C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	132/30 CW 312/30 (NOPT)	FENIM (IF/IAF) (FB)	2500
2.	312/30 CW 042/30	CIXAK (IAF) (FB)	2500
3.	042/30 CW 132/30	042/10 CW 132/10	3300
4.	042/10 CW 132/10	EYILI (IAF) (FB)	2500

CITY AND STATE
ROCKY MOUNT, NC

ELEVATION: 158 THRE: 150
AIRPORT NAME:
ROCKY MOUNT-WILSON RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 2
12 DECEMBER 2013

SUP:
AMDT: 1
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	KRWI
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	355151.8335N
LTP/FTP LONGITUDE	0775307.2970W
LTP/FTP ELLIPSOIDAL HEIGHT	+00110
FPAP LATITUDE	355037.2500N
FPAP LONGITUDE	0775407.4700W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0584
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	1C28E9EC
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00458
FPAP ORTHOMETRIC HEIGHT	+00458

CITY AND STATE

ROCKY MOUNT, NC

ELEVATION: 158

THRE: 150

AIRPORT NAME:

ROCKY MOUNT-WILSON RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 22, AMDT 2

12 DECEMBER 2013

SUP:

AMDT:

1

DATED:

07/30/2009

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KRWIK7FR22	ACIXAK	010CIXAKK7EA0E	A	IF					18000		A	JS
SUSAP	KRWIK7FR22	ACIXAK	020FENIMK7EA0EE	B	010TF		31250099	+	02500			A	JS
SUSAP	KRWIK7FR22	AHEYILI	010EYILIK7EA0E	A	IF					18000		A	JS
SUSAP	KRWIK7FR22	AHEYILI	020FENIMK7EA0EE	B	010TF		13230099	+	02500			A	JS
SUSAP	KRWIK7FR22	AFENIM	010FENIMK7EA0EE	AR	HF		22240040	+	02500	18000		A	JS
SUSAP	KRWIK7FR22	R	010FENIMK7EA0E	I	IF			+	02500	18000		A	JS
SUSAP	KRWIK7FR22	R	020BONACK7EA1E	F	051TF		22240068	+	01800			A	JS
SUSAP	KRWIK7FR22	R	020BONACK7EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KRWIK7FR22	R	021BUDAYK7EA0E	S	031TF		22230026	V	0096000967		-300	A	JS
SUSAP	KRWIK7FR22	R	030RW22 K7PG0GY	M	031TF		22230024		00202		-300	A	JS
SUSAP	KRWIK7FR22	R	040		M	CA	2223	+	01000			A	JS
SUSAP	KRWIK7FR22	R	050FENIMK7EA0EY	R	DF			+	02500			A	JS
SUSAP	KRWIK7FR22	R	060FENIMK7EA0EE	R	HM		22240040	+	02500			A	JS

[illegible][illegible]

CITY AND STATE
ROCKY MOUNT, NC

ELEVATION: 158	THRE: 150
AIRPORT NAME:	
ROCKY MOUNT-WILSON RGNL	

FACILITY
IDENTIFIER:
| RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 2
 12 DECEMBER 2013

SUP:	
AMDT:	1
DATED:	07/30/2009

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

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CIXAK	CIXAK	010	IAF	IF		FB					
	CIXAK	FENIM	020		TF		FB	1.0	312.5 (303.5T)	009.9	AA 02500	
	EYILI	EYILI	010	IAF	IF		FB					
	EYILI	FENIM	020		TF		FB	1.0	132.3 (123.3T)	009.9	AA 02500	
	FENIM	FENIM	010	IAF	HF	R	FO		222.4 (213.4T)	004.0	AA 02500	
		FENIM	010	FACF	IF		FB				AA 02500	
		BONAC	020	FAF	TF		FB	0.5	222.4 (213.4T)	006.8	AA 01800	
		BUDAY	021	SDF	TF		FB	0.3	222.3 (213.3T)	002.6	AA 00960	GS 00967
		RW22	030	MAP	TF		FO	0.3	222.3 (213.3T)	002.4	AT 00202	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		222.3 (213.3T)		AA 01000	
	FENIM	050		DF	R	FO				AA 02500	
	FENIM	060		HM	R	FO		222.4 (213.4T)	004.0	AA 02500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BONAC	N355603.75	W0774943.79	N3556.063	W07749.730
	BUDAY	N355352.36	W0775129.94	N3553.873	W07751.499
	CIXAK	N355617.16	W0773456.51	N3556.286	W07734.942
	EYILI	N360711.91	W0775519.42	N3607.199	W07755.324
	FENIM	N360144.97	W0774507.26	N3601.750	W07745.121
	RW22	N355151.83	W0775307.30	N3551.864	W07753.122

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW22	00150	52

CITY AND STATE
ROCKY MOUNT, NC

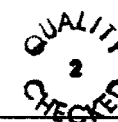
ELEVATION: **158** THRE: **150**
 AIRPORT NAME:
ROCKY MOUNT-WILSON RGNL

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 2
12 DECEMBER 2013

SUP:
 AMDT: **1**
 DATED: **07/30/2009**

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW14 CLIMB TO 3800 DIRECT HUSIV AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 317.96 INBOUND. CHART FAS OBST: 1345 BLDG 412652N/0963158W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 1.12 MILES TO RW14* *LNAV ONLY. WAAS CHANNEL # 82403 REFERENCE PATH ID: W14A CHART CIRCLING ICON LTP HAE: 339.7 M								
AYUVI (IF/IAF)	GRAIN (FB)	137.73 / 6.88	3000									
GRAIN (FAF)	BOCAK/2.20 NM TO RW14 (FB)	137.80 / 3.32										
BOCAK/2.20 NM TO RW14	RW14 (MAP) (FO)	137.80 / 2.20										
RW14 (MAP)	1453 MSL	137.80										
1453 MSL	HUSIV (FO)		3800									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NW AYUVI, RT, 137.73 INBOUND, 3300 FT. IN LIEU OF PT (IAF) 3. FAC: <u>137.80</u> FAF: <u>GRAIN</u> DIST FAF TO MAP: <u>5.52</u> THLD: <u>5.52</u> 4. MIN. ALT: AYUVI 3300, GRAIN 3000, BOCAK/2.20 NM TO RW14 1940* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: <u>GRAIN 3000</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 3E 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
LPV DA	1453	1	250	1453	1	250	1453	1	250		NA	
LNAV/VNAV DA	1495	1	292	1495	1	292	1495	1	292		NA	
LNAV MDA	1600	1	397	1600	1	397	1600	1 1/8	397		NA	
CIRCLING	1760	1	556	1760	1	556	2020	2 1/2	816		NA	
NOTES: CHART NOTE: CIRCLING TO RWY 1/19 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 1204 THRE: 1203		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP:				
FREMONT, NE		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 14, AMDT 2		AMDT:		1A		
		FREMONT MUNI				12 DECEMBER 2013		DATED		12/16/2010		



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

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NOTES, (CONT.):

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

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

TAA

	FROM	TO	ALT
1.	048/30 CW 228/30 (NOPT)	AYUVI (IF/IAF) (FB)	3300
2.	228/30 CW 048/30	AYUVI (IAF) (FO)	3300

QUALITY
2
CHECKED

CITY AND STATE
FREMONT, NE

ELEVATION: 1204 THRE: 1203
AIRPORT NAME:
FREMONT MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 14, AMDT 2
12 DECEMBER 2013

SUP:
AMDT: 1A
DATED: 12/16/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFET
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	412720.8125N
LTP/FTP LONGITUDE	0963143.3240W
LTP/FTP ELLIPSOIDAL HEIGHT	+03397
FPAP LATITUDE	412611.6700N
FPAP LONGITUDE	0963028.5300W
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	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

5FB424B5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03667
FPAP ORTHOMETRIC HEIGHT	+03667

2
CHECKED

CITY AND STATE FREMONT, NE	ELEVATION: 1204 THRE: 1203 AIRPORT NAME: FREMONT MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 2 12 DECEMBER 2013	SUP:
				AMDT: 1A
				DATED: 12/16/2010

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

ARINC PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAEENRT	AYUVI	K30	W	N41365760W096420957				E0034	NAR		AYUVI		
SUSAEENRT	BOCAK	K30	W	N41290321W096333420				E0033	NAR		BOCAK		
SUSAEENRT	GRAIN	K30	W	N41313754W096362155				E0034	NAR		GRAIN		
SUSAEENRT	HUSIV	K30	W	N41170744W096204168				E0032	NAR		HUSIV		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KFETK3AFET	0	063YHN41265980W096311630E003001204					1800018000C	MNAR		FREMONT MUNI		

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KFETK3FR14	AAYUVI	010AYUVIK3EA0EE	AR	HF			13770040	+ 03300	18000		A JS	
SUSAP	KFETK3FR14	R	010AYUVIK3EA0E	I	IF				+ 03300	18000		A JS	
SUSAP	KFETK3FR14	R	020GRAINK3EA1E	F	051TF			13770069	+ 03000			A JS	
SUSAP	KFETK3FR14	R	020GRAINK3EA2WALPV			ALNAV/VNAV	ALNAV					JS	
SUSAP	KFETK3FR14	R	021BOCAKK3EA0E	S	031TF			13780033	V 0194001944	-300		A JS	
SUSAP	KFETK3FR14	R	030RW14	K3PG0GY	M 031TF			13780022	01243	-300		A JS	
SUSAP	KFETK3FR14	R	040	0	M	CA		1378	+ 01453			A JS	
SUSAP	KFETK3FR14	R	050HUSIVK3EA0EY		DF				+ 03800			A JS	
SUSAP	KFETK3FR14	R	060HUSIVK3EA0EE	R	HM			31800040	+ 03800			A JS	

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KFETK3GRW14	0063531379	N41272081W096314332+0000					+0339701203085040100R					

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KFETK3PR14	RW14	001 0000W14A0N4127208125W09631433240+033970300N4126116700W09630285300106751072000400F4005005FB424B5										
SUSAP	KFETK3PR14	RW14	002E +03667+03667LPV			82403							

QUALITY
2
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CITY AND STATE FREMONT, NE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 2 12 DECEMBER 2013	SUP:
	AIRPORT NAME: FREMONT MUNI			AMDT: 1A
	DATED: 12/16/2010			

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	AYUVI	AYUVI	010	IAF	HF	R	FO		137.7 (140.7T)	004.0	AA 03300	
		AYUVI	010	FACF	IF		FB				AA 03300	
		GRAIN	020	FAF	TF		FB	0.5	137.7 (140.7T)	006.9	AA 03000	
		BOCAK	021	SDF	TF		FB	0.3	137.8 (140.8T)	003.3	AA 01940 GS 01944	
		RW14	030	MAP	TF		FO	0.3	137.8 (140.8T)	002.2	AT 01243	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		137.8 (140.8T)		AA 01453	
	HUSIV	050		DF		FO				AA 03800	
	HUSIV	060		HM	R	FO		318.0 (321.0T)	004.0	AA 03800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AYUVI	N413657.60	W0964209.57	N4136.960	W09642.160
	BOCAK	N412903.21	W0963334.20	N4129.054	W09633.570
	GRAIN	N413137.54	W0963621.55	N4131.626	W09636.359
	HUSIV	N411707.44	W0962041.68	N4117.124	W09620.695
	RW14	N412720.81	W0963143.32	N4127.347	W09631.722

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	01203	40

QUALITY
2
CHECKED

CITY AND STATE FREMONT, NE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: FREMONT MUNI	RNAV	RNAV (GPS) RWY 14, AMDT 2 12 DECEMBER 2013	AMDT: 1A
				DATED: 12/16/2010

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		LPV: DA LNAV/VNAV: DA LNAV: RW32												
HUSIV (IF/IAF)			ZEMES (FB)			317.96 / 6.88			3000														
ZEMES (FAF)			RW32 (MAP) (FO)			317.90 / 5.52																	
RW32 (MAP)			1455 MSL			317.90					CLIMB TO 3300 DIRECT AYUVI AND HOLD.												
1455 MSL			AYUVI (FO)						3300														
										ADDITIONAL FLIGHT DATA: HOLD NW, RT, 137.73 INBOUND. CHART FAS OBST: 1413 BLDG 412548N/0963002W 1489 AAO 412143N/0962728W DISTANCE TO THLD FROM 252 HATH: 0.66 NM. CHART VDP AT 1.37 MILES TO RW32* *LNAV ONLY. WAAS CHANNEL # 77635 REFERENCE PATH ID: W32A CHART CIRCLING ICON. LTP HAE: 339.7 M													
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																							
2. HOLD SE HUSIV, RT, 317.96 INBOUND, 3800 FT. IN LIEU OF PT (IAF)																							
3. FAC: 317.90 FAF: ZEMES										DIST FAF TO MAP: 5.52 THLD: 5.52													
4. MIN. ALT: HUSIV 3800, ZEMES 3000																							
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:																							
6. MIN GS INCPT: 3000 GS ALT AT: ZEMES 3000 OM: MM: IM:																							
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR																							
8. MSA FROM:										MAG VAR: 3E 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	1455	1	252	1455	1	252	1455	1	252		NA												
LNAV/VNAV DA	1711	1 3/4	508	1711	1 3/4	508	1711	1 3/4	508		NA												
LNAV MDA	1680	1	477	1680	1	477	1680	1 3/8	477		NA												
CIRCLING	1760	1	556	1760	1	556	2020	2 1/2	816		NA												
NOTES: CHART NOTE: CIRCLING TO RWY 1/19 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (SEE FORM 8260-10)																							
CITY AND STATE FREMONT, NE				ELEVATION: 1204 THRE: 1203 AIRPORT NAME: FREMONT MUNI			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG 12 DECEMBER 2013				SUP: AMDT: NONE DATED										

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

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

NOTES, (CONT.):

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

ALL DA/MDA 60 FEET; INCREASE LNAV CAT C VISIBILITY 1/8 MILE, AND LNAV/VNAV VISIBILITY 1/4 MILE

ALL CATS.

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

TAA

	FROM	TO	ALT
1.	228/30 CW 048/30 (NOPT)	HUSIV (IF/IAF) (FB)	3800
2.	048/30 CW 228/30	HUSIV (IAF) (FO)	3800

QUALITY
2
CHECKED

CITY AND STATE FREMONT, NE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG 12 DECEMBER 2013	SUP:
	AIRPORT NAME: FREMONT MUNI			AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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 KFET
RUNWAY RW32
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W32A
LTP/FTP LATITUDE 412645.1755N
LTP/FTP LONGITUDE 0963104.7565W
LTP/FTP ELLIPSOIDAL HEIGHT +03397
FPAP LATITUDE 412754.3100N
FPAP LONGITUDE 0963219.5800W
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 1072
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

70DF1F4E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3
LTP ORTHOMETRIC HEIGHT +03667
FPAP ORTHOMETRIC HEIGHT +03667

QUALITY
2
CHECKED

CITY AND STATE

FREMONT, NE

ELEVATION: 1204

THRE: 1203

AIRPORT NAME:

FREMONT MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 32, ORIG

12 DECEMBER 2013

SUP:

AMDT:

NONE

DATED:

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

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KFETK3FR32	AHUSIV	010HUSIVK3EA0EE	AR	HF		31800040		+ 03800		18000		A	JS
SUSAP KFETK3FR32	R	010HUSIVK3EA0E	I	IF				+ 03800		18000		A	JS
SUSAP KFETK3FR32	R	020ZEMESK3EA1E	F	051TF		31800069		+ 03000				A	JS
SUSAP KFETK3FR32	R	020ZEMESK3EA2WALPV			ALNAV/VNAV								JS
SUSAP KFETK3FR32	R	030RW32	K3PGGY	M	031TF	31790055		01243		-300		A	JS
SUSAP KFETK3FR32	R	040		M	CA	3179		+ 01455				A	JS
SUSAP KFETK3FR32	R	050AYUVIK3EA0EY		DF				+ 03300				A	JS
SUSAP KFETK3FR32	R	060AYUVIK3EA0EE	R	HM		13770040		+ 03300				A	JS

[illegible][illegible]

QUALITY
2
CHECKED

CITY AND STATE FREMONT, NE	ELEVATION: 1204 THRE: 1203 AIRPORT NAME: FREMONT MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG 12 DECEMBER 2013	SUP:
				AMDT: NONE
				DATED:

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

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HUSIV	HUSIV	010	IAF	HF	R	FO		318.0(321.0T)	004.0	AA 03800	
		HUSIV	010	PACF	IF		FB				AA 03800	
		ZEMES	020	FAF	TF		FB	0.5	318.0(321.0T)	006.9	AA 03000	
		RW32	030	MAP	TF		FO	0.3	317.9(320.9T)	005.5	AT 01243	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		317.9(320.9T)		AA 01455	
	AYUVI	050		DF		FO				AA 03300	
	AYUVI	060		HM	R	FO		137.7(140.7T)	004.0	AA 03300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AYUVI	N413657.60	W0964209.57	N4136.960	W09642.160
	HUSIV	N411707.44	W0962041.68	N4117.124	W09620.695
	ZEMES	N412228.28	W0962627.20	N4122.471	W09626.453
	RW32	N412645.18	W0963104.76	N4126.753	W09631.079

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW32	01203	40

QUALITY
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CHECKED

CITY AND STATE FREMONT, NE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: FREMONT MUNI	RNAV	RNAV (GPS) RWY 32, ORIG 12 DECEMBER 2013	AMDT: NONE
				DATED:

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

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
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City, State	Airport	Effective Date	Amdt. No.
FREMONT, NE	FREMONT MUNI	12 DECEMBER 2013	6A

TAKEOFF MINIMUMS:

RWY 1, 32, STANDARD.

RWY 14, 300-1 ½ OR STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 1500.

RWY 19, 600-2 ½ OR STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 2000.

TEXTUAL DEPARTURE PROCEDURES:

RWY 19 – CLIMB HEADING 188.33 TO 1800 BEFORE TURNING RIGHT.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1, VEHICLES ON ROADS BEGINNING 176 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 15 FT AGL/1224 FT MSL. TREES BEGINNING 848 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1299 FT MSL. TREES BEGINNING 3317 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1299 FT MSL.

NOTE: RWY 14, VEGETATION LOCATED 16 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 5 FT AGL/1205 FT MSL. MULTIPLE TREES BEGINNING 691 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1275 FT MSL. TOWER LOCATED 1548 FT FROM DER, 674 FT LEFT OF CENTERLINE, 50 FT AGL/1250 FT MSL. BUILDING LOCATED 1.1 NM FROM DER, 53 FT LEFT OF CENTERLINE, 216 FT AGL/1413 FT MSL.

NOTE: RWY 19, VEHICLES ON ROADS BEGINNING 717 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 15 FT AGL/1224 FT MSL. MULTIPLE TREES BEGINNING 816 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1282 FT MSL. ANTENNA AND TOWER LOCATED 2.1 NM FROM DER, 2098 FT RIGHT OF CENTERLINE, UP TO 369 FT AGL/1719 FT MSL.

NOTE: RWY 32, VEGETATION BEGINNING 104 FT FROM DER, 483 FT LEFT OF CENTERLINE, UP TO 9 FT AGL/ 1209 FT MSL. VEHICLES ON ROAD AND POLES BEGINNING 422 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 25 FT AGL/1230 FT MSL. STREET LIGHTS BEGINNING 584 FT FROM DER, 460 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/1246 FT MSL. MULTIPLE TREES BEGINNING 1060 FT FROM DER, 176 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1273 FT MSL.

CONTROLLING OBSTACLES:

RWY 14: 1413 FT MSL BUILDING (KFETT0232) 412547.62N/0963001.60W.

RWY 19: 1719 FT MSL TOWER (31-000474) 412440.00N/0963158.00W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 19 – 1719 FT MSL TOWER (31-001217) 412450.78N/0963326.62W



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

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City, State	Airport	Effective Date	Amdt. No.
FREMONT, NE	FREMONT MUNI	12 DECEMBER 2013	6A

REMARKS:

FLIGHT INSPECTED BY:

Donald McGough *hgm* 9-12-13

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

THOMAS L. KIRPATRICK *hgm* 06/25/2013

APPROVED BY:

DEBORAH L. COPELAND *hgm* 9-23-13

COORDINATED WITH:

ZMP, NBAA, AOPA, ALPA, AMGR

CHANGES:

1. CHANGED RWY 19 DEPARTURE PROCEDURE HEADING FROM 185.33 TO 188.33.

REASONS:

1. AIRPORT MAG VAR UPDATED FROM 6E 1990 TO 3E 2015.

QUALITY
2
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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: SCB 10.01 DME FIX						
OLU VOR/DME		IBHEN INT/SCB 2.84 DME		061.79 / 31.57				3100		CLIMB TO 3000 THEN LEFT TURN DIRECT SCB VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: FAS OBST: 1559 AAO 413018N/0963506W CHART VDP AT 8.20 DME; DISTANCE VDP TO THLD 1.81 MILES. CALNN TO RW14: 3.00/40. CHART CIRCLING ICON						
KENAR INT/OVR 32.00 DME		SCB VOR/DME		296.84 / 16.08				3000								
IBHEN INT/SCB 2.84 DME (IAF)		SCB VOR/DME (NOPT)		116.23 / 2.84				3000								
SCB VOR/DME (IF/IAF)		CALLN/SCB 6.06 DME		147.17 / 6.06				2500								
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. <u>HOLD NW SCB VOR/DME, RT, 147.17 INBOUND, 3000 FT. IN LIEU OF PT (IAF)</u> 3. FAC <u>147.17</u> FAF <u>CALLN/SCB 6.06 DME</u> DIST FAF TO MAP <u> </u> THLD <u>3.95</u> 4. MIN. ALT <u>SCB VOR/DME 3000, CALLN 2500</u> 8. MSA FROM: <u>SCB VOR/DME 090-180 2900, 180-090 3300</u>										MAG VAR: 6E		EPOCH YEAR: 1995				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X						
CATEGORY =====>		A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-14	1820	1	617	1820	1	617	1820	1 3/4	617		NA					
CIRCLING	1820	1	616	1820	1	616	2020	2 1/2	816		NA					
NOTES: CHART NOTE: CIRCLING TO RWY 1/19 NA AT NIGHT. CHART NOTE: VDP NA WITH BLAIR ALTIMETER SETTING. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BLAIR ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET; INCREASE S-14 CAT C VISIBILITY 1/8 MILE.																
CITY AND STATE		ELEVATION: 1204		THRE: 1203		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP				
FREMONT, NE		AIRPORT NAME:		FREMONT MUNI		SCB		VOR/DME RWY 14, AMDT 3				VOR RWY 14				
								12 DECEMBER 2013				AMDT				
												DATE 04/10/2008				

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

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

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	

ADDITIONAL FLIGHT DATA:

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
 2. ____
 3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____
 4. MIN. ALT ____
 8. MSA FROM: _____

MAG VAR: _____

EPOCH YEAR: _____

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A								
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
		</													

NOTES:

PROCEDURE CANCELED EFFECTIVE 12 DECEMBER 2013

QUALITY
9
CHECKED

CITY AND STATE NORWICH, NY	ELEVATION: 1025 TDZE: AIRPORT NAME: LT WARREN EATON	FACILITY IDENTIFIER: RKA	PROCEDURE NO./AMD T NO./EFFECTIVE DATE: VOR/DME-A, AMDT 4, 04/13/2006	SUP AMDT 3A DATE 09/03/93
-------------------------------	---	-----------------------------	--	---------------------------------

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

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

NOTES, (CONT.):

INCREASE ALL MDA 140 FEET.

CHART NOTE: LOCALIZER UNUSABLE 3.6 NM AFTER PASSING KRING LOM.

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

CHART NOTE: PROCEDURE NA AT NIGHT.

QUALITY
CHECKED

CITY AND STATE

ONEONTA, NY

ELEVATION: 1763

TDZE: 1758

AIRPORT NAME:

ONEONTA MUNI

FACILITY
IDENTIFIER:

I-OZX

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC RWY 24, AMDT 2B

12 DECEMBER 2013

SUP:

AMDT: 2A

DATED: 05/30/2013

FLIGHT STANDARDS SERVICES - FAR PART 97.25

ARINC PACKET - 424-18 - LOC

FLIGHT STANDARDS SERVICES - FAR PART 97.25

[illegible]

QUALITY
4
CHECKED

CITY AND STATE ONEONTA, NY	ELEVATION: 1763	TDZE: 1758	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: LOC RWY 24, AMDT 2B 12 DECEMBER 2013	SUP:
	AIRPORT NAME: ONEONTA MUNI	FACILITY IDENTIFIER: I-OZX		AMDT: 2A
				DATED: 05/30/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	COOES	COOES	010		IF		FB					
	COOES	KRING	020		TF		FB				AA 03900	
	COOES	KRING	030	IAF	PI	R	FB		012.2()	010.0	AA 03900	
	RKA	RKA	010		IF		FB					
	RKA	KRING	020		TF		FB				AA 03900	
	RKA	KRING	030	IAF	PI	R	FB		012.2()	010.0	AA 03900	
		CFDRT	010	FACF	IF		FB				AA 03900	
		KRING	020	FAF	CF		FB		237.0()	006.0	AA 03500	
		CFDRW	030	MAP	CF		FO		237.0()	003.6	AT 02159	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		237.2()		AA 02163	
	OZ	050		DF	R	FO				AA 03900	
	OZ	060		HM	R	FO		237.2()	T01.0	AA 03900	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	RKA	N422758.91	W0751421.51	N4227.982	W07514.359
	COOES	N424530.66	W0750553.87	N4245.511	W07505.898
	CFDRT	N423924.60	W0745333.80	N4239.410	W07453.563
	CFDRW	N423227.26	W0750236.20	N4232.454	W07502.603
	KRING	N423503.74	W0745909.99	N4235.062	W07459.167
	RW24	N423144.03	W0750332.54	N4231.734	W07503.542
	IOZX (LOC)	N423109.10	W0750418.39	N4231.152	W07504.307
	OZ	N423504.91	W0745911.61	N4235.082	W07459.194

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW24	01750	40

QUALITY
CHECKED

CITY AND STATE
ONEONTA, NYELEVATION: 1763 TDZE: 1758
AIRPORT NAME:
ONEONTA MUNIFACILITY
IDENTIFIER:
I-OZXPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
LOC RWY 24, AMDT 2B
12 DECEMBER 2013SUP:
AMDT: 2A
DATED: 05/30/2013

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.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: 5.78 MILES AFTER SHOSH/AQI 5.62 DME/RADAR OR AT I-AQI 0.17 DME FIX CLIMB TO 3000 ON ZZV VOR/DME R-280 DIRECT ANDEY INT/ZZV 32.72 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 3000 THEN LEFT TURN DIRECT APE VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 280.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE APE VORTAC, RT, 235.00 INBOUND. CHART FAS OBST: 958 BLDG 395929N/0825625W CHART VDP AT 0.93 DME*; DISTANCE VDP TO THLD 1.08 MILES. *LOC ONLY. CHART IN PLANVIEW: APE VORTAC. CHART IN PROFILE VIEW: I-AQI DME ANTENNA CHART IN PLANVIEW ONLY: APE 22.43 DME AT SHOSH. CHART IN PLANVIEW: (CFBSC) AT 400027.81N/0830950.42W CHART CIRCLING ICON											
APE VORTAC	SHOSH/I-AQI 5.62 DME/RADAR	252.43 / 22.43	2900												
1. PT <u>L</u> SIDE OF COURSE <u>281.19</u> OUTBOUND <u>2800</u> FT WITHIN <u>10</u> MILES OF <u>SHOSH</u> (IAF) 2. _____ 3. FAC: <u>101.19</u> FAF: <u>SHOSH/I-AQI 5.62 DME/RADAR</u> DIST FAF TO MAP: <u>5.78</u> THLD: <u>5.78</u> 4. MIN. ALT: <u>SHOSH 2700, DEBBY/I-AQI 1.84 DME/RADAR 1480*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: <u>1832</u> 100 HAT: <u>878</u> GS ANT: <u>1000</u> 6. MIN GS INCPT: <u>2700</u> GS ALT AT: <u>SHOSH 2700</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.0</u> 8. MSA FROM: <u>APE VORTAC 3100</u>				MAG VAR: 7W EPOCH YEAR: 2015											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: <u>N A</u>		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 10R	1005	1800	200	1005	1800	200	1005	1800	200	1005	1800	200			
S-LOC 10R	1480	2400	675	1480	2400	675	1480	1 1/2	675	1480	1 1/2	675			
CIRCLING	1480	1	665	1480	1	665	1520	2	705	1540	2 1/4	725			
DEBBY FIX MINIMUMS (DME OR RADAR REQUIRED)															
S-LOC 10R	1220	2400	415	1220	2400	415	1220	4000	415	1220	4000	415			
CIRCLING	1340	1	525	1340	1	525	1520	2	705	1540	2 1/4	725			
NOTES: SA CATEGORY I ILS-SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 10R: CAT A,B,C,D RA 146, RVR 1400, HATh 150, DA 955 MSL. SA CATEGORY II ILS- SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 10R: CAT A,B,C,D RA 99, RVR 1200, HATh 100, DA 905 MSL. (SEE FORM 8260-10)															
CITY AND STATE COLUMBUS, OH		ELEVATION: 815		THRE: 805		FACILITY IDENTIFIER: I-AQI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 10R, AMDT 9A ILS RWY 10R (SA CAT I) ILS RWY 10R (SA CAT II) 12/12/2013				SUP:			
		AIRPORT NAME:										AMDT: 9			
		PORT COLUMBUS INTL										DATED 08/22/2013			



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

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

NOTES, (CONT.):

CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 10L.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 10R CATS C/D VISIBILITY TO 1 7/8, INCREASE DEBBY

FIX MINIMUMS S-LOC 10R CATS C/D VISIBILITY TO 1 1/8.

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: DME OR RADAR REQUIRED.



CITY AND STATE COLUMBUS, OH	ELEVATION: 815 THRE: 805 AIRPORT NAME: PORT COLUMBUS INTL	FACILITY IDENTIFIER: I-AQI	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 10R, AMDT 9A ILS RWY 10R (SA CAT I) ILS RWY 10R (SA CAT II) 12/12/2013	SUP:
				AMDT: 9
				DATED: 08/22/2013

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

[illegible][illegible]

TRM	WP	1	2	3	4	5	6	7	8	9	0	1	2	3
		SUSAP	KCMHK5	CANDEY	K50	C	N39583636W082360063		W0073	NAR		ANDEY		
		SUSAP	KCMHK5	CCFBSC	K50	W	N40002781W083095042		W0069	NAR		CNF (CFBSC)		
		SUSAP	KCMHK5	CSHOSH	K50	C	N40000226W083020318		W0070	NAR		SHOSH		

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMHK5FI10R	AAPE	010APE	K5D 0V	IF					18000		0	NS
SUSAP	KCMHK5FI10R	AAPE	020SHOSHK5PC0E		TF				+	02900		0	NS
SUSAP	KCMHK5FI10R	AAPE	030SHOSHK5PC0EE	AR	PI	IAQIK5	2812007623620100PI					0	NS
SUSAP	KCMHK5FI10R	I	010CFBSCK5PC0E	I	IF	IAQIK5	28120136	PI	J	028000270018000		0	NS
SUSAP	KCMHK5FI10R	I	020SHOSHK5PC0E	F	CF	IAQIK5	2812007610100060PI	H	0270002700		-300APE	K5D	0 NS
SUSAP	KCMHK5FI10R	I	030RW10RK5PG0GY	M	CF	IAQIK5	2812001810100058PI		00859		-300		0 NS
SUSAP	KCMHK5FI10R	I	040ANDEYK5PC0EYM		CF	ZZV K5	2800032710000150D		+	03000			0 NS
SUSAP	KCMHK5FI10R	I	050ANDEYK5PC0EE	L	HM		2800T010		+	03000			0 NS

[illegible][illegible][illegible]

SUP:	
AMDT:	9
DATED:	08/22/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR 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.

SUSAP KCMHK5SAPE K5D

0 18018003125

M



CITY AND STATE COLUMBUS, OH	ELEVATION: 815	THRE: 805	FACILITY IDENTIFIER: I-AQI	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 10R, AMDT 9A ILS RWY 10R (SA CAT I) ILS RWY 10R (SA CAT II) 12/12/2013	SUP:
	AIRPORT NAME: PORT COLUMBUS INTL				AMDT: 9
					DATED: 08/22/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	APE	APE	010		IF		FB					
	APE	SHOSH	020		TF		FB				AA 02900	
	APE	SHOSH	030	IAF	PI	R	FB		236.2()	010.0	AA 02800	
		CFBSC	010	FACF	IF		FB				AA 02800 GI 02700	
		SHOSH	020	FAF	CF		FB		101.0()	006.0	GI 02700 GS 02700	
		RW10R	030	MAP	CF		FO		101.0()	005.8	AT 00859	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ANDEY	040		CF		FO		100.0()	015.0	AA 03000	
	ANDEY	050		HM	L	FO		280.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	APE	N400903.83	W0823517.88	N4009.064	W08235.298
	ZZV	N395627.10	W0815333.36	N3956.452	W08153.556
	IAQI (DME)	N395933.74	W0825445.88	N3959.562	W08254.765
	ANDEY	N395836.36	W0823600.63	N3958.606	W08236.011
	CFBSC	N400027.81	W0830950.42	N4000.464	W08309.840
	SHOSH	N400002.26	W0830203.18	N4000.038	W08302.053
	RW10R	N395937.14	W0825433.04	N3959.619	W08254.551
	IAQI (LOC)	N395929.07	W0825210.45	N3959.485	W08252.174

RUNWAY DATA	THRESHOLD		
RWY	ELEVATION	TCH	
RW10R	00805	51	

QUALITY
7
CHECKED

CITY AND STATE
COLUMBUS, OH

ELEVATION: 815 THRE: 805
AIRPORT NAME:
PORT COLUMBUS INTL

FACILITY
IDENTIFIER:
I-AQI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 10R, AMDT 9A
ILS RWY 10R (SA CAT I)
ILS RWY 10R (SA CAT II) 12/12/2013

SUP:
AMDT: 9
DATED: 08/22/2013

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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

ARINC PACKET - 424-18 - LOC

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KCMHK5FL10R	AAPE	010APE	K5D 0V	IF						18000		0	NS
SUSAP KCMHK5FL10R	AAPE	020SHOSHK5PC0E	TF					+ 02900				0	NS
SUSAP KCMHK5FL10R	AAPE	030SHOSHK5PC0EE	AR	PI	IAQIK5	2812007623620100PI		+ 02800				0	NS
SUSAP KCMHK5FL10R	L	010CFBSCK5PC0E	I	IF	IAQIK5	28120136		PI + 02800		18000		0	NS
SUSAP KCMHK5FL10R	L	020SHOSHK5PC0E	F	CF	IAQIK5	2812007610100060PI		+ 02700			APE	K5D	0 NS
SUSAP KCMHK5FL10R	L	021DEBYYK5PC0E	S	CF	IAQIK5	2812003810100038PI		+ 01480			-301		0 NS
SUSAP KCMHK5FL10R	L	030RW10RK5PG0GY	M	CF	IAQIK5	2812001810100020PI		00859			-301		0 NS
SUSAP KCMHK5FL10R	L	040ANDEYK5PC0EYM		CF	ZZV K5	2800032710000150D		+ 03000					0 NS
SUSAP KCMHK5FL10R	L	050ANDEYK5PC0EE	L	HM		2800T010		+ 03000					0 NS

[illegible][illegible]

1	2	3	4	5	6	7	8	9	0	1	2
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CITY AND STATE
COLUMBUS, OH

ELEVATION: 815 THRE:
AIRPORT NAME: PORT COLUMBUS INTL

FACILITY
IDENTIFIER:
| I-AQI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
 ILS OR LOC RWY 10R, AMDT 9A
 ILS RWY 10R (SA CAT I)
 ILS RWY 10R (SA CAT II) 12/12/2013

SUP:	
AMDT:	9
DATED:	08/22/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR 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.

MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCMHK5SAPE K5D

0 18018003125

M

QUALITY
1
CHECKED

CITY AND STATE
COLUMBUS, OH

ELEVATION: 815 THRE: 815
AIRPORT NAME:
PORT COLUMBUS INTL

FACILITY
IDENTIFIER:
I-AQI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 10R, AMDT 9A
ILS RWY 10R (SA CAT 1)
ILS RWY 10R (SA CAT II) 12/12/2013

SUP:

AMDT: 9

DATED: 08/22/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	APE	APE	010		IF		FB					
	APE	SHOSH	020		TF		FB				AA 02900	
	APE	SHOSH	030	IAF	PI	R	FB		236.2()	010.0	AA 02800	
		CFBSC	010	FACF	IF		FB				AA 02800	
		SHOSH	020	FAF	CF		FB		101.0()	006.0	AA 02700	
		DEBBY	021	SDF	CF		FB		101.0()	003.8	AA 01480	
		RW10R	030	MAP	CF		FO		101.0()	002.0	AT 00859	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ANDEY	040		CF		FO		100.0()	015.0	AA 03000	
	ANDEY	050		HM	L	FO		280.0()	001.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	APE	N400903.83	W0823517.88	N4009.064	W08235.298
	ZZV	N395627.10	W0815333.36	N3956.452	W08153.556
	IAQI (DME)	N395933.74	W0825445.88	N3959.562	W08254.765
	ANDEY	N395836.36	W0823600.63	N3958.606	W08236.011
	CFBSC	N400027.81	W0830950.42	N4000.464	W08309.840
	DEBBY	N395945.89	W0825708.77	N3959.765	W08257.146
	SHOSH	N400002.26	W0830203.18	N4000.038	W08302.053
	RW10R	N395937.14	W0825433.04	N3959.619	W08254.551
	IAQI (LOC)	N395929.07	W0825210.45	N3959.485	W08252.174

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW10R	00805		51

QUALITY
1
CHECKED

CITY AND STATE
COLUMBUS, OHELEVATION: 815 THRE: 815
AIRPORT NAME:
PORT COLUMBUS INTLFACILITY
IDENTIFIER:
I-AQIPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 10R, AMDT 9A
ILS RWY 10R (SA CAT 1)
ILS RWY 10R (SA CAT II) 12/12/2013SUP:
AMDT: 9
DATED: 08/22/2013

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

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

MISSED APPROACH INSTRUCTIONS, (CONT.):

276.65 TO GOWRI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. (GPS REQUIRED).

TAA

	FROM	TO	ALT
1.	181/30 CW 001/30 (NOPT)	COVIM INT/RADAR (IF/IAF) (FB)	3000
2.	001/30 CW 181/30	COVIM INT/RADAR (IF/IAF) (FO)	3000

QUALITY
9
CHECKED

CITY AND STATE
MEMPHIS, TN

ELEVATION: 341 THRE: 292
AIRPORT NAME:
MEMPHIS INTL

FACILITY
IDENTIFIER:
I-JIM

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 27, AMDT 4
12 DECEMBER 2013

SUP:
AMDT: 3A
DATED: 03/10/2011

FLIGHT STANDARDS SERVICES - FAR 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.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KMEMK7FI27	ACOVIM	010COVIMK7EA0EE	AR	HF	MEM K7	078901252710T010D		+	03000	18000			0 NS
SUSAP KMEMK7FI27	I	010COVIMK7EA0E	I	IF	IJIMK7	09100126	PI	J	030000190018000				0 NS
SUSAP KMEMK7FI27	I	020CABAVK7EA0E	F	CF	IJIMK7	0910006527100060PI	H		0190001900		-300		0 NS
SUSAP KMEMK7FI27	I	030RW27 K7PGGY	M	CF	IJIMK7	0910001627100049PI			00346		-300		0 NS
SUSAP KMEMK7FI27	I	040	0 M	CI		2710		+	02500				0 NS
SUSAP KMEMK7FI27	I	050GOWRIK4EA0EY		CF	MEM K7	2850017028500070D			05000				0 NS
SUSAP KMEMK7FI27	I	06CGOWRIK4EA0EE	R	HM		2850T010		+	05000				0 NS

[illegible][illegible]

SUP:	
AMDT:	3A
DATED:	03/10/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	COVIM	COVIM	010	IAP	HF	R	FO		271.0()	T01.0	AA 03000	
		COVIM	010	PACF	IF		FB				AA 03000 GI 01900	
		CABAV	020	PAF	CF		FB		271.0()	006.0	GI 01900 GS 01900	
		RW27	030	MAP	CF		FO		271.0()	004.9	AT 00346	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CI		FB		271.0()		AA 02500	
	GOWRI	050		CF		FO		285.0()	007.0	AA 05000	
	GOWRI	060		HM	R	FO		285.0()	T01.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MEM	N350054.42	W0895859.55	N3500.907	W08958.993
	CABAV	N350317.78	W0895124.54	N3503.296	W08951.409
	COVIM	N350304.72	W0894403.51	N3503.079	W08944.059
	GOWRI	N350534.40	W0901854.39	N3505.573	W09018.907
	RW27	N350328.01	W0895721.08	N3503.467	W08957.351
	IJIM (LOC)	N350331.39	W0895920.99	N3503.523	W08959.350

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00292	54

CITY AND STATE
MEMPHIS, TNELEVATION: 341 THRE: 292
AIRPORT NAME:
MEMPHIS INTLFACILITY
IDENTIFIER:
I-JIMPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 27, AMDT 4
12 DECEMBER 2013SUP:
AMDT: 3A
DATED: 03/10/2011

FLIGHT STANDARDS SERVICES - FAR 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.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMEMK7FL27	ACOVIM	010COVIMK7EA0EE	AR	HF MEM K7	078901252710T010D		+	03000	18000		0	NS
SUSAP	KMEMK7FL27	L	010COVIMK7EA0E	I	IF IJIMK7	09100126	PI	+	03000	18000		0	NS
SUSAP	KMEMK7FL27	L	020CABAVK7EA0E	F	CF IJIMK7	0910006527100060PI		+	01900			0	NS
SUSAP	KMEMK7FL27	L	021IPEPEK7EA0E	S	CF IJIMK7	0910003627100029PI		+	00980		-301	0	NS
SUSAP	KMEMK7FL27	L	030RW27 K7PG0GY	M	CF IJIMK7	0910001627100020PI			00346		-301	0	NS
SUSAP	KMEMK7FL27	L	040	0 M	CI	2710		+	02500			0	NS
SUSAP	KMEMK7FL27	L	050GOWRIK4EA0EY		CF MEM K7	28500170285000070D		+	05000			0	NS
SUSAP	KMEMK7FL27	L	060GOWRIK4EA0EE	R	HM	2850T010		+	05000			0	NS

[illegible][illegible]

CITY AND STATE MEMPHIS, TN	ELEVATION: 341 AIRPORT NAME: MEMPHIS INTL	THRE: 292 FACILITY IDENTIFIER: I-JIM	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 27, AMDT 4 12 DECEMBER 2013	SUP:
				AMDT: 3A
				DATED: 03/10/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	COVIM	COVIM	010	IAF	HF	R	FO		271.0()	T01.0	AA 03000	
		COVIM	010	FACF	IF		FB				AA 03000	
		CABAV	020	FAF	CF		FB		271.0()	006.0	AA 01900	
		IPEPE	021	SDF	CF		FB		271.0()	002.9	AA 00980	
		RW27	030	MAP	CF		FO		271.0()	002.0	AT 00346	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CI		FB		271.0()		AA 02500	
	GOWRI	050		CF		FO		285.0()	007.0	AA 05000	
	GOWRI	060		HM	R	FO		285.0()	T01.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MEM	N350054.42	W0895859.55	N3500.907	W08958.993
	CABAV	N350317.78	W0895124.54	N3503.296	W08951.409
	COVIM	N350304.72	W0894403.51	N3503.079	W08944.059
	GOWRI	N350534.40	W0901854.39	N3505.573	W09018.907
	IPEPE	N350323.85	W0895455.00	N3503.398	W08954.917
	RW27	N350328.01	W0895721.08	N3503.467	W08957.351
	IJIM (LOC)	N350331.39	W0895920.99	N3503.523	W08959.350

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW27	00292		54

CITY AND STATE
MEMPHIS, TNELEVATION: 341 THRE: 292
AIRPORT NAME:
MEMPHIS INTLFACILITY
IDENTIFIER:
I-JIMPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 27, AMDT 4
12 DECEMBER 2013SUP:
AMDT: 3A
DATED: 03/10/2011

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

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

TAA

	FROM	TO	ALT
1.	181/30 CW 001/30 (NOPT)	COVIM (IF/IAF) (FB)	3000
2.	001/30 CW 181/30	COVIM (IF/IAF) (FO)	3000



CITY AND STATE
MEMPHIS, TN

ELEVATION: 341 THRE: 292
AIRPORT NAME:
MEMPHIS INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 27, AMDT 2
12 DECEMBER 2013

SUP:
AMDT: 1A
DATED: 04/07/2011

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

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

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KMEM
RUNWAY RW27
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR W27A
REFERENCE PATH IDENTIFIER (APPROACH ID) 350328.0125N
LTP/FTP LATITUDE 0895721.0830W
LTP/FTP LONGITUDE +00616
LTP/FTP ELLIPSOIDAL HEIGHT 350331.0600N
FPAP LATITUDE 0895909.5500W
FPAP LONGITUDE 00053.5
THRESHOLD CROSSING HEIGHT (TCH) F
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00
GLIDEPATH ANGLE (GPA) 106.75
COURSE WIDTH AT THRESHOLD 0024
LENGTH OFFSET 40.0
HORIZONTAL ALERT LIMIT (HAL) 35.0
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

0C034705

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K7
LTP ORTHOMETRIC HEIGHT +00890
FPAP ORTHOMETRIC HEIGHT +00890



CITY AND STATE MEMPHIS, TN	ELEVATION: 341 THRE: 292 AIRPORT NAME: MEMPHIS INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 2 12 DECEMBER 2013	SUP:
				AMDT: 1A
				DATED: 04/07/2011

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KMEMK7FR27	ACOVIM	010COVIMK7EA0EE	AR	HF		27110040		+ 03000	18000			A JS	
SUSAP KMEMK7FR27	R	010COVIMK7EA0E	I	IF				+ 03000	18000			A JS	
SUSAP KMEMK7FR27	R	020CABAVK7EA1E	F	051TF		27110060		+ 01900				A JS	
SUSAP KMEMK7FR27	R	020CABAVK7EA2WALPV			ALNAV/VNAV ALNAV							JS	
SUSAP KMEMK7FR27	R	030RW27 K7PGOGY	M	031TF		27100049		00346		-300		A JS	
SUSAP KMEMK7FR27	R	040	0	M	CA	2710		+ 00492				A JS	
SUSAP KMEMK7FR27	R	050A VADEK7EA0E		DF								A JS	
SUSAP KMEMK7FR27	R	060GOWRIK4EA0EY		010TF		2767		+ 05000				A JS	
SUSAP KMEMK7FR27	R	070GOWRIK4EA0EE	R	HM		28500050		+ 05000				A JS	

[illegible][illegible]

QUALITY
CHECK

CITY AND STATE
MEMPHIS, TN

ELEVATION: 341 THRE: 292
AIRPORT NAME: MEMPHIS INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 27, AMDT 2
 12 DECEMBER 2013

SUP:	
AMDT:	1A
DATED:	04/07/2011

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	COVIM	COVIM	010	IAF	HF	R	FO		271.1 (272.1T)	004.0	AA 03000	
		COVIM	010	FACF	IF		FB				AA 03000	
		CABAV	020	FAF	TF		FB	0.5	271.1 (272.1T)	006.0	AA 01900	
		RW27	030	MAP	TF		FO	0.3	271.0 (272.0T)	004.9	AT 00346	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		271.0 (272.0T)		AA 00492	
	AVADE	050		DF		FB					
	GOWRI	060		TF		FO	1.0	276.7 (277.7T)		AA 05000	
	GOWRI	070		HM	R	FO		285.0 (286.0T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AVADE	N350333.14	W0900023.69	N3503.552	W09000.395
	CABAV	N350317.78	W0895124.54	N3503.296	W08951.409
	COVIM	N350304.72	W0894403.51	N3503.079	W08944.059
	GOWRI	N350534.40	W0901854.39	N3505.573	W09018.907
	RW27	N350328.01	W0895721.08	N3503.467	W08957.351

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00292	54

QUALITY
9
CHECKED

CITY AND STATE MEMPHIS, TN	ELEVATION: 341	THRE: 292	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 27, AMDT 2	AMDT: 1A
	MEMPHIS INTL	RNAV	12 DECEMBER 2013	DATED: 04/07/2011	

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.
MEMPHIS, TN	MEMPHIS INTL	12 DECEMBER 2013	4

TAKEOFF MINIMUMS:

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

TEXTUAL DEPARTURE PROCEDURES:

RWY 36C – CLIMB HEADING 358.01 TO 700 BEFORE TURNING LEFT.

TAKEOFF OBSTACLE NOTES:

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

NOTE: RWY 18R, VORTAC AND ROD ON POLE BEGINNING 3209 FT FROM DER, 1019 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/412 FT MSL. TREES 3231 FT FROM DER, 1038 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/406 FT MSL.

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

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

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

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

QUALITY
3
CHECKED

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

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

City, State	Airport	Effective Date	Amdt. No.
MEMPHIS, TN	MEMPHIS INTL	12 DECEMBER 2013	4

REMARKS:

CONTROLLING OBSTACLE FOR RUNWAY 36C IS NOT IN AVNIS DATABASE (SEE 2013-ASO-75-NRA).

FLIGHT INSPECTED BY:

James Krenek

9-18-13

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

PETER GUIMOND

AJV-352

07/31/2013

APPROVED BY:

SUSAN CRUMB

AJV-352

SEP 25 2013

COORDINATED WITH:

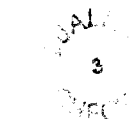
ATA, APA, ALPA, NBAA, AOPA, ZME, MEM DEP CON, MEM ATCT, AMGR.

CHANGES:

1. AMENDED RWY 36C CONTROLLING OBSTACLE HEIGHT FROM 624 FT MSL TO 617 FT MSL.
2. DELETED RWY 36L DEPARTURE PROCEDURE.
3. DELETED RWY 36L CONTROLLING OBSTACLE.
4. DELETED TAKEOFF OBSTACLE NOTES FOR RWY 18L AND RWY 18R.
5. AMENDED TAKEOFF OBSTACLES NOTES FOR RWY 9, 18R, AND 27.

REASONS:

1. UPDATED SURVEY DATA (SEE 2013-ASO-75-NRA).
2. NO LONGER REQUIRED, ATC TOWER NO LONGER PENETRATES WHEN COMPUTED USING UPDATED HEIGHT.
3. NO LONGER REQUIRED, ALL SURFACES ARE CLEAR.
4. NEW OBSTACLE STUDY, ALL SURFACES ARE CLEAR.
5. NEW OBSTACLE STUDY.



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: RW33 CLIMB TO 4000 DIRECT WIBUG AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 148.10 INBOUND. FAS OBST: 1789 TREE 314830N/0992223W OBST: 2170 AAO 314514N/0992030W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 1.01 MILES TO RW33* *LNAV ONLY. WAAS CHANNEL # 82034 REFERENCE PATH ID: W33A CHART CIRCLING ICON LTP HAE: 485.9 M						
SITNA		EKGUZ (FB)		182.93 / 30.91				4000								
EKGUZ (IAF)		CUKKU (NOPT) (FB)		238.28 / 8.00				4000								
CUKKU (IF/IAF)		OVHIL (FB)		328.20 / 7.00				3500								
OVHIL (FAF)		HOPIV/1.90 NM TO RW33 (FB)		328.17 / 3.69												
HOPIV/1.90 NM TO RW33		RW33 (MAP) (FO)		328.17 / 1.90												
RW33 (MAP)		1929 MSL		328.17												
1929 MSL		WIBUG (FO)						4000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE CUKKU, LT, 328.20 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: 328.17 FAF: OVHIL _____ DIST FAF TO MAP: 5.59 THLD: 5.59 4. MIN. ALT: CUKKU 4000, OVHIL 3500, HOPIV/1.90 NM TO RW33 2320* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3500 GS ALT AT: OVHIL 3500 _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: RW33 4000										MAG VAR: 7E 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	1929	7/8	250	1929	7/8	250	1929	7/8	250		NA					
LNAV/VNAV DA	1929	7/8	250	1929	7/8	250	1929	7/8	250		NA					
LNAV MDA	2040	1	361	2040	1	361	2040	1	361		NA					
CIRCLING	2300	1	603	2440	1	743	2440	2 1/4	743		NA					
NOTES: CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BROWNWOOD ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BROWNWOOD ALTIMETER SETTING AND INCREASE ALL DA 97FT AND ALL VISIBILITIES 1/4 MILE; INCREASE ALL MDA 100 FT, LNAV CAT C (SEE FORM 8260-10) @ CAT C 800-2 1/4 @ NA WHEN LOCAL WEATHER NOT AVAILABLE.																
CITY AND STATE COLEMAN, TX				ELEVATION: 1697 THRE: 1679 AIRPORT NAME: COLEMAN MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, ORIG 12 DECEMBER 2013				SUP: AMDT: NONE DATED		

QUALITY
 CHECKED

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

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

NOTES, (CONT.):

VISIBILITY 3/8 MILE, AND CIRCLING CATS B AND C 1/4 MILE.

CHART NOTE: DME/DME RNP-0.3 NA.

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SITNA ON V94 EASTBOUND.

QUALITY
6
CHECKED

CITY AND STATE

COLEMAN, TX

ELEVATION: 1697

THRE: 1679

AIRPORT NAME:

COLEMAN MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 33, ORIG

12 DECEMBER 2013

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 INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KCOM
RUNWAY RW33
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR W33A
REFERENCE PATH IDENTIFIER (APPROACH ID) 315007.8890N
LTP/FTP LATITUDE 0992402.0250W
LTP/FTP LONGITUDE +04859
LTP/FTP ELLIPSOIDAL HEIGHT 315128.9100N
FPAP LATITUDE 0992445.9900W
FPAP LONGITUDE 00040.0
THRESHOLD CROSSING HEIGHT (TCH) F
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00
GLIDEPATH ANGLE (GPA) 106.75
COURSE WIDTH AT THRESHOLD 1376
LENGTH OFFSET 40.0
HORIZONTAL ALERT LIMIT (HAL) 50.0
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

DC6CC511

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K4
LTP ORTHOMETRIC HEIGHT +05118
FPAP ORTHOMETRIC HEIGHT +05118

QUALITY
6
CHECKED

CITY AND STATE

COLEMAN, TX

ELEVATION: 1697

THRE: 1679

AIRPORT NAME:

COLEMAN MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 33, ORIG

12 DECEMBER 2013

SUP:

AMDT: NONE

DATED:

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KCOMK4FR33	ACUKKU	010CUKKUK4EA0EE	AL	HF			32820040	+	04000	18000		A	JS
SUSAP KCOMK4FR33	ASITNA	010SITNAK4EA0E		IF						18000		A	JS
SUSAP KCOMK4FR33	ASITNA	020EKGUZK4EA0E	A	020TF			18290309	+	04000			A	JS
SUSAP KCOMK4FR33	ASITNA	030CUKKUK4EA0EE	B	010TF			23830080	+	04000			A	JS
SUSAP KCOMK4FR33	R	010CUKKUK4EA0E	I	IF				+	04000	18000		A	JS
SUSAP KCOMK4FR33	R	020OVHILK4EA1E	F	051TF			32820070	+	03500		RW33	K4PGA	JS
SUSAP KCOMK4FR33	R	020OVHILK4EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KCOMK4FR33	R	021HOPIVK4EA0E	S	031TF			32820037	V	0232002324		-300		A JS
SUSAP KCOMK4FR33	R	030RW33 K4PGOGY	M	031TF			32820019		01719		-300		A JS
SUSAP KCOMK4FR33	R	040	0	M	CA		3282	+	01929				A JS
SUSAP KCOMK4FR33	R	050WIBUGK4EA0EY		DF				+	04000				A JS
SUSAP KCOMK4FR33	R	060WIBUGK4EA0EE	R	HM			14810040	+	04000				A JS

[illegible][illegible][illegible]

CITY AND STATE COLEMAN, TX	ELEVATION: 1697 AIRPORT NAME: COLEMAN MUNI	THRE: 1679 RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 33, ORIG 12 DECEMBER 2013	SUP:
				AMDT: NONE
				DATED:

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

SUSAP KCOMK4SRW33 K4PG

0 18018004025

M

QUALITY
6
CHECKED

CITY AND STATE
COLEMAN, TX

ELEVATION: 1697 THRE: 1679
AIRPORT NAME:
COLEMAN MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 33, ORIG
12 DECEMBER 2013

SUP:
AMDT: NONE
DATED:

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CUKKU	CUKKU	010	IAF	HF	L	FO		328.2(335.2T)	004.0	AA 04000	
	SITNA	SITNA	010		IF		FB					
	SITNA	EKGUZ	020	IAF	TF		FB	2.0	182.9(189.9T)	030.9	AA 04000	
	SITNA	CUKKU	030		TF		FB	1.0	238.3(245.3T)	008.0	AA 04000	
		CUKKU	010	FACF	IF		FB				AA 04000	
		OVHIL	020	FAF	TF		FB	0.5	328.2(335.2T)	007.0	AA 03500	
		HOPIV	021	SDF	TF		FB	0.3	328.2(335.2T)	003.7	AA 02320	GS 02324
		RW33	030	MAP	TF		FO	0.3	328.2(335.2T)	001.9	AT 01719	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		328.2(335.2T)		AA 01929	
	WIBUG	050		DF		FO				AA 04000	
	WIBUG	060		HM	R	FO		148.1(155.1T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CUKKU	N313840.81	W0991750.15	N3138.680	W09917.836
	EKGUZ	N314202.22	W0990919.36	N3142.037	W09909.323
	HOPIV	N314824.22	W0992305.81	N3148.404	W09923.097
	OVHIL	N314502.78	W0992116.68	N3145.046	W09921.278
	SITNA	N321233.27	W0990304.27	N3212.555	W09903.071
	WIBUG	N320239.46	W0993050.68	N3202.658	W09930.845
	RW33	N315007.89	W0992402.03	N3150.132	W09924.034

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW33	01679	40

QUALITY
6
CHECKED

CITY AND STATE COLEMAN, TX	ELEVATION: 1697	THRE: 1679	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: COLEMAN MUNI		RNAV	RNAV (GPS) RWY 33, ORIG 12 DECEMBER 2013	AMDT: NONE
					DATED:

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [30926](#); Amdt. No. [3561](#)]

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 revokes 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 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 ² PUBLICATION IN THE FEDERAL REGISTER].

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

For Examination -

1. FAA Rules Docket, FAA Headquarters Building, 800 Independence Avenue, SW, Washington, DC 20591;

2. The FAA Regional Office of the region in which the affected airport is located;

3. The National Flight Procedures Office, 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 are available online free of charge.

Visit nfdc.faa.gov to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from:

1. FAA Public Inquiry Center (APA-200), FAA Headquarters Building, 800 Independence Avenue, SW., Washington, DC 20591; or

2. The FAA Regional Office of the region in which the affected airport is located.

FOR FURTHER INFORMATION CONTACT: Richard A. Dunham III, Flight Procedure Standards Branch (AFS-420) Flight Technologies and Programs Division, Flight Standards Service, Federal Aviation Administration, Mike Monroney Aeronautical Center, 6500 South

3

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 (FDC)/Permanent Notice to Airmen (P-NOTAM), and is incorporated by reference in the amendment under 5 U.S.C. 552(a), 1 CFR part 51, and §97.20 of Title 14 of the Code of Federal Regulations.

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 in FAA form documents is unnecessary. This amendment provides the affected CFR sections and specifies the types of SIAP and the corresponding effective dates. This amendment also identifies the airport and its location, the procedure and the amendment number.

THE RULE

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

The SIAPs, as modified by FDC P-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, 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 which created the need for all these SIAP amendments requires making them effective in less than 30 days.

Because of the close and immediate relationship between these SIAPs and safety in air commerce, I find that notice and public procedure before adopting these SIAPs are impracticable and contrary to the public interest and, where applicable, that good cause exists for making these SIAPs effective in less than 30 days.

CONCLUSION

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, and Navigation (Air).

Issued in Washington, DC on [OCTOBER 11, 2013](#).

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

John 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, 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(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
11/14/13	FL	St Augustine	Northeast Florida Rgnl	3/5330	10/10/13	RNAV (GPS) RWY 13, Orig-A
11/14/13	FL	St Augustine	Northeast Florida Rgnl	3/5331	10/10/13	RNAV (GPS) RWY 31, Amdt 1A
11/14/13	FL	St Augustine	Northeast Florida Rgnl	3/5332	10/10/13	ILS OR LOC/DME RWY 31, Orig-A
11/14/13	TX	Lufkin	Angelina County	3/6808	10/10/13	VOR RWY 33, Amdt 14A
11/14/13	VA	Farmville	Farmville Rgnl	3/6811	10/10/13	RNAV (GPS) RWY 21, Orig-A
11/14/13	SD	Rapid City	Rapid City Rgnl	3/6866	10/10/13	ILS OR LOC RWY 32, Amdt 19
11/14/13	SD	Rapid City	Rapid City Rgnl	3/6875	10/10/13	VOR OR TACAN RWY 32, Amdt 24E
11/14/13	SD	Rapid City	Rapid City Rgnl	3/6879	10/10/13	RNAV (GPS) RWY 32, Amdt 1A
11/14/13	SD	Rapid City	Rapid City Rgnl	3/6882	10/10/13	RNAV (GPS) RWY 14, Amdt 2
11/14/13	SD	Rapid City	Rapid City Rgnl	3/6883	10/10/13	VOR OR TACAN RWY 14, Orig-E
11/14/13	IN	La Porte	La Porte Muni	3/7124	10/10/13	LOC/NDB RWY 2, Amdt 1B
11/14/13	GA	Toccoa	Toccoa RG Letourneau Field	3/8388	10/10/13	RNAV (GPS) RWY 20, Amdt 1

AIRAC Date: 14 NOVEMBER 2013

FDC **3/5330** SGJ FI/P IAP NORTHEAST FLORIDA RGNL, ST AUGUSTINE, FL. RNAV (GPS) RWY 13, ORIG-A... LNAV MDA 460/HAT 450 ALL CATS. CIRCLING CAT A MDA 480/HAA 470, CAT B/C MDA 580/HAA 570. CHART NOTE: RWY 13 STRAIGHT-IN MINIMUMS NA AT NIGHT. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 31 NA AT NIGHT. CHANGE VISIBILITY REDUCTION BY HELICOPTERS NA NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHANGE LOCAL ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSONVILLE NAS (TOWERS FLD) ALTIMETER SETTING AND INCREASE ALL DA 57 FEET AND ALL MDA 60 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CAT C AND CIRCLING CAT C VISIBILITY 1/4 MILE. CHANGE FOR UNCOMPENSATED BARO-VNAV NOTE TO READ: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). THIS IS RNAV (GPS) RWY 13, ORIG-B.

FDC **3/5331** SGJ PART 1 OF 2 FI/P IAP NORTHEAST FLORIDA RGNL, ST AUGUSTINE, FL. RNAV (GPS) RWY 31, AMDT 1A... LPV VIS 7/8 ALL CATS. LNAV/VNAV VIS 7/8 ALL CATS. LNAV MDA 520/HATH 514 ALL CATS. VIS CAT C/D 1 3/8. CIRCLING CAT A MDA 520/HAA 510, CAT B/C MDA 580/HAA 570. DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 31 PROCEDURE NA AT NIGHT. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHANGE FOR UNCOMPENSATED BARO-VNAV NOTE TO READ: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). CHANGE LOCAL ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSONVILLE NAS (TOWERS FLD) ALTIMETER SETTING AND INCREASE ALL DA 57 FEET AND ALL MDA 60 FEET; INCREASE LPV ALL CATS VISIBILITY 1/8 MILE AND INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE. CHART VDP AT 1.44 MILES TO RW31* CHANGE BARO-VNAV NA WHEN USING JACKSONVILLE NAS/TOWERS FLD ALTIMETER SETTING NOTE TO READ: BARO-VNAV AND VDP NA WHEN USING END PART 1 OF 2

FDC **3/5331** SGJ PART 2 OF 2 FI/P IAP NORTHEAST FLORIDA RGNL, ST AUGUSTINE, FL. JACKSONVILLE NAS (TOWERS FLD) ALTIMETER SETTING. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. THIS IS RNAV (GPS) RWY 31, AMDT 1B. END PART 2 OF 2

FDC **3/5332** SGJ FI/P IAP NORTHEAST FLORIDA RGNL, ST AUGUSTINE, FL. ILS OR LOC/DME RWY 31, ORIG-A... S-LOC 31 MDA 520/HAT 512 ALL CATS. VIS CAT C 1 1/2, CAT D 1 3/4. CIRCLING CAT A MDA 520/HAA 510, CAT B/C/D MDA 580/HAA 570. CHANGE MISSED APPROACH TO READ: CLIMB TO 3000 ON HEADING 312 AND CRG R-164 TO BUNDE /CRG 17 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTER NA. DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 31 PROCEDURE NA AT NIGHT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSONVILLE NAS (TOWERS FLD) ALTIMETER SETTING AND INCREASE ALL DA 57 FEET AND ALL MDA 60 FEET, AND INCREASE S-ILS 31 ALL CATS AND CIRCLING CAT C VISIBILITY 1/4 MILE. CHART VDP AT 2.75 DME*; DISTANCE VDP TO THLD 1.45 MILES. *LOC ONLY. CHART NOTE: VDP NA WITH JACKSONVILLE NAS (TOWERS FLD) ALTIMETER SETTING. THIS IS ILS OR LOC/DME RWY 31, ORIG-B.

FDC **3/6808** LFK FI/P IAP ANGELINA COUNTY, LUFKIN, TX. VOR RWY 33, AMDT 14A... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. THIS IS VOR RWY 33, AMDT 14B.

FDC **3/6811** FVX FI/P IAP FARMVILLE RGNL, FARMVILLE, VA. RNAV (GPS) RWY 21, ORIG-A... DELETE NOTE: STRAIGHT-IN/CIRCLING RWY 21 PROCEDURE NA AT NIGHT. THIS IS RNAV (GPS) RWY 21, ORIG-B.

FDC **3/6866** RAP FI/P IAP RAPID CITY RGNL, RAPID CITY, SD. ILS OR LOC RWY 32, AMDT 19... CIRCLING CAT B MDA 3840/ HAA 636, CAT C MDA 3840/HAA 636 VIS 1 3/4, CAT D MDA 3840/HAA 636. CHANGE NOTE: FOR INOPERATIVE MALSR, INCREASE CAT E VISIBILITY TO RVR 4000 S-LOC CAT C, D, E VISIBILITY TO 1 3/8. ADD NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELLSWORTH ALTIMETER SETTING, INCREASE ALL DA 26 FEET AND ALL MDA 40 FEET. ADD NOTE: FOR INOPERATIVE MALSR WHEN USING ELLSWORTH ALTIMETER SETTING, ICREASE CAT C/D/E VIS TO 1 3/8. CHART CIRCLING ICON. ADD NOTE: VDP NA WHEN USING ELLSWORTH ALTIMETER SETTING. ALTERNATE MINIMUMS: ILS: STANDARD, EXCEPT CAT B/C/D 700 - 2, CAT E 800 - 2 3/4; LOC: STANDARD, EXCEPT CAT E 800 - 2 3/4; AND BOTH NA WHEN LOCAL WEATHER NOT AVAILABLE. THIS IS ILS OR LOC RWY 32, AMDT 19A.

FDC **3/6875** RAP FI/P IAP RAPID CITY RGNL, RAPID CITY, SD. VOR OR TACAN RWY 32, AMDT 24E... S-32 HATH 297, VIS RVR 4000 ALL CATS. CIRCLING CAT B MDA 3840/HAA 636, CAT C MDA 3840/HAA 636 VIS 1 3/4, CAT D MDA 3840/HAA 636 CAT E MDA 3960/HAA 756 VIS 2 3/4. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-32 VISIBILITY ALL CATS TO 1. CHANGE ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELLSWORTH ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET AND S-32 VISIBILITY ALL CATS TO RVR 4500. CHART NOTE: FOR INOPERATIVE MALSR WHEN USING ELLSWORTH ALTIMETER SETTING INCREASE VISIBILITY ALL CATS TO 1. ALTERNATE MINIMUMS: STANDARD, EXCEPT CATEGORY E, 800 2 3/4; NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART CIRCLING ICON. CHART THRE 3143 DELETE TDZE DELETE NOTE: INOPERATIVE NOTE DOES NOT APPLY TO CAT D AND E. THIS IS VOR OR TACAN RWY 32, AMDT 24F.

FDC **3/6879** RAP FI/P IAP RAPID CITY RGNL, RAPID CITY, SD. RNAV (GPS) RWY 32, AMDT 1A... ADD NOTE: FOR INOPERATIVE MALSR, INCREASE AND LNAV CAT C/D/E VIS TO 1 3/8. CHANGE ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELLSWORTH ALTIMETER SETTING AND INCREASE ALL DA 26 FEET AND ALL MDA 40 FEET. CHANGE NOTE TO READ: FOR INOPERATIVE MALSR WHEN USING ELLSWORTH ALTIMETER SETTING, INCREASE LNAV CATS A/B VIS TO 1, CATS C/D/E TO 1 3/8 AND VNAV VIS ALL CATS TO RVR 4500. CIRCLING CAT B MDA 3840/HAA 636, CAT C MDA 3840/HAA 636 VIS 1 3/4, CAT D MDA 3840/HAA 636, CAT E MDA 3960/HAA 756 VIS 2 3/4. CHART THRE 3142 DELETE TDZE. CHART CIRCLING ICON. ALTERNATE MINIMUMS: STANDARD, EXCEPT CATEGORY E, 800 2 3/4; NA WHEN LOCAL WEATHER NOT AVAILABLE. THIS IS RNAV (GPS) RWY 32, AMDT 1B.

FDC **3/6882** RAP FI/P IAP RAPID CITY RGNL, RAPID CITY, SD. RNAV (GPS) RWY 14, AMDT 2... LNAV CAT C/D/E VIS 1 3/4. CIRCLING CAT B MDA 3840/HAA 636, CAT C MDA 3840/HAA 636 VIS 1 3/4, CAT D MDA 3840/HAA 636 VIS 2, CAT E MDA 3960/HAA 756 VIS 2 3/4. ADD NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELLSWORTH ALTIMETER SETTING AND INCREASE ALL DA 26 FEET AND ALL MDA 40 FEET AND INCREASE LNAV-VNAV VISIBILITY ALL CATS TO 2 1/2. ALTERNATE MINIMUMS: STANDARD, EXCEPT CATEGORY E, 800 2 3/4; NA WHEN LOCAL WEATHER NOT AVAILABLE. CHANGE HELICOPTER NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART THRE 3191 DELETE TDZE. CHART CIRCLING ICON. THIS IS RNAV (GPS) RWY 14, AMDT 2A.

FDC **3/6883** RAP FI/P IAP RAPID CITY RGNL, RAPID CITY, SD. VOR OR TACAN RWY 14, ORIG-E... CIRCLING CAT B MDA 3840/HAA 636, CAT C MDA 3840/HAA 636 VIS 1 3/4, CAT D MDA 3840/HAA 636 VIS 2, CAT E MDA 3960/HAA 756 VIS 2 3/4. ALTERNATE MINIMUMS: STANDARD, EXCEPT CATEGORY E, 800 2 3/4: NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART PLANVIEW NOTE: DME OR RADAR REQUIRED. CHART CIRCLING ICON. THIS IS VOR OR TACAN RWY 14, ORIG-F.

FDC **3/7124** PPO FI/P IAP LA PORTE MUNI, LA PORTE, IN. LOC/NDB RWY 2, AMDT 1B... CHART NOTE: RWY 2 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. CHANGE ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SOUTH BEND ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET; INCREASE S-2 CAT D VISIBILITY 1/4 MILE. THIS IS LOC/NDB RWY 2, AMDT 1C.

FDC **3/8388** TOC FI/P IAP TOCCOA RG LETOURNEAU FIELD, TOCCOA, GA. RNAV (GPS) RWY 20, AMDT 1... CHANGE PLANVIEW NOTE PROCEDURE NA FOR ARRIVALS AT DAYEL TO READ: PROCEDURE NA FOR ARRIVALS AT DAYEL ON V54 WESTBOUND. CHANGE PLANVIEW NOTE PROCEDURE NA FOR ARRIVALS AT CALOK TO READ: PROCEDURE NA FOR ARRIVALS AT CALOK ON V222 NORTHEAST BOUND. DELETE PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. THIS IS RNAV (GPS) RWY 20, AMDT 1A.