

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 14-03

December 20, 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.**

**The following are corrected copies of procedures that were previously published in
TL 14-01 and TL 14-02**

Rota Island, CQ, Benjamin Taisacan Mangiona Intl, NDB RWY 27, Amdt 4
Homestead, FL, Homestead General Aviation, RNAV (GPS) RWY 28, Orig

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: GRO NDB					
ERTTS INT/UNZ 46.00 DME		GRO NDB			087.09 / 12.29			3100		CLIMBING RIGHT TURN TO 2000 ON HEADING 360 THEN CONTINUE CLIMBING RIGHT TURN TO 3100 DIRECT GRO NDB AND HOLD.					
KAQTU/UNZ 23.00 DME		GRO NDB			030.74 / 29.09			3100							
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 14-02										ADDITIONAL FLIGHT DATA: HOLD E, RT, 260.00 INBOUND. CHART FAS OBST: 661 TREE 141022N/1451457E CHART 3100 PRIOR TO GRO NDB IN PROFILE. ← CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 1788 FROM THLD.					
1. PT <u>L</u> SIDE OF COURSE <u>080.00</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>GRO NDB</u> (IAF)														MAG VAR: 2E EPOCH YEAR: 1985	
2.															
3. FAC <u>260.00</u> FAF _____ DIST FAF TO MAP _____ THLD _____															
4. MIN. ALT _____															
8. MSA FROM: GRO NDB 2900															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: NA		@					
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-27	1120	1	513	1120	1	513	1120	1 3/8	513	1120	1 3/8	513			
CIRCLING	1120	1	513	1120	1	513	1120	1 1/2	513	1160	2	553			
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANDERSEN AFB ALTIMETER SETTING AND INCREASE ALL MDA 320 FT, INCREASE S-27 CAT B VISIBILITY 1/4 MILE, CAT C,D VISIBILITY 1 1/8 MILE, CIRCLING CAT A,B VISIBILITY 1/4 MILE, CAT C 1 MILE, CAT D 3/4 MILE. ← CHART NOTE: CIRCLING NA S OF RWY 09-27. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 607 THRE: 607		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP					
ROTA ISLAND, CQ		AIRPORT NAME:		GRO		NDB RWY 27, AMDT 4 6 FEBRUARY 2014				AMDT 3D					
		BENJAMIN TAISACAN MANGIONA INTL								DATE 02/09/2012					

**NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

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

NOTES, (CONT.):

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

CHART NOTE: STRAIGHT-IN AND CIRCLING TO RWY 27 NA AT NIGHT.

CITY AND STATE

ROTA ISLAND, CQ

ELEVATION: 607

THRE: 607

AIRPORT NAME:

BENJAMIN TAISACAN MANGIONA INTL

FACILITY
IDENTIFIER:

GRO

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB RWY 27, AMDT 4

6 FEBRUARY 2014

SUP:

AMDT: 3D

DATED: 02/09/2012

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.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: ZENAX CLIMB TO 500, THEN CLIMBING RIGHT TURN TO 2000 DIRECT HOLMU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 095.60 INBOUND. CHART FAS OBST: 70 TREE 253030N/0803130W ZURBU TO RW28: 3.06/40. CHART A-291D FAC CROSSES RWY C/L EXTENDED 4499 FROM THLD.											
LUVLY	CACSA (FB)	266.36 / 3.36	2000												
CACSA (IAF)	RONEY (FB)	242.57 / 9.37	2000												
RONEY (IF)	ZURBU (FB)	254.80 / 5.60	2000												
ZURBU (FAF)	JIDBO/2.90 NM TO ZENAX (FO)	256.35 / 2.40													
JIDBO/2.90 NM TO ZENAX	ZENAX (MAP) (FO)	256.35 / 2.90													
ZENAX (MAP)	500 MSL	256.35	500												
500 MSL	HOLMU (FO)		2000												
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 14-01															
1. PT NA SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT RONEY															
3. FAC: 256.35 FAF: ZURBU DIST FAF TO MAP: 5.30 THLD: 6.00															
4. MIN. ALT: RONEY 2000, ZURBU 2000, JIDBO/2.90 NM TO ZENAX 1200															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____															
7. GS ANGLE: _____ TCH: 34:1 IS CLEAR															
8. MSA FROM: ZENAX 2900															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	320	1	313	320	1	313	NA			NA					
CIRCLING	380	1	373	460	1	453	NA			NA					
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KENDALL-TAMIAMI EXECUTIVE ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LUVLY BR49V SOUTHEAST BOUND.															
CITY AND STATE				ELEVATION: 7		THRE: 7		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
HOMESTEAD, FL				AIRPORT NAME:		HOMESTEAD GENERAL AVIATION				RNAV (GPS) RWY 28, ORIG 6 FEBRUARY 2014				AMDT: NONE	
												DATED			

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP X51 K7FR28	ALUVLY	010LUVLYK7EA0E	IF							18000		B JS	
SUSAP X51 K7FR28	ALUVLY	020CACSAK7EA0E	A 010TF			26640034		+ 02000				B JS	
SUSAP X51 K7FR28	ALUVLY	030RONEYK7EA0EE	B 010TF			24260094		+ 02000				B JS	
SUSAP X51 K7FR28	R	010RONEYK7EA0E	I IF					+ 02000		18000		B JS	
SUSAP X51 K7FR28	R	020ZURBUK7EA1E	F 051TF			25480056		+ 02000			ZENAX K7EAB	JS	
SUSAP X51 K7FR28	R	020ZURBUK7EA2WN		N	ALNAV							JS	
SUSAP X51 K7FR28	R	021JIDBOK7EA0EYS	031TF			25640024		V 0120001219			-306	B JS	
SUSAP X51 K7FR28	R	030ZENAXK7EA0EY	M 031TF			25640029		00287			-306	B JS	
SUSAP X51 K7FR28	R	040	0 M CA			2564		+ 00500				B JS	
SUSAP X51 K7FR28	R	050HOLMUK7EA0EY	R DF					+ 02000				B JS	
SUSAP X51 K7FR28	R	060HOLMUK7EA0EE	R HM			09560040		+ 02000				B JS	

[illegible][illegible]

CITY AND STATE HOMESTEAD, FL	ELEVATION: 7	THRE: 7	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 28, ORIG 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: HOMESTEAD GENERAL AVIATION				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
	LUVLY	LUVLY	010		IF		FB					
	LUVLY	CACSA	020	IAF	TF		FB	1.0	266.4 (260.4T)	003.4	AA 02000	
	LUVLY	RONEY	030		TF		FB	1.0	242.6 (236.6T)	009.4	AA 02000	
		RONEY	010	FACF	IF		FB				AA 02000	
		ZURBU	020	FAF	TF		FB	0.5	254.8 (248.8T)	005.6	AA 02000	
		JIDBO	021	SDF	TF		FO	0.3	256.4 (250.4T)	002.4	AA 01200 GS 01219	
		ZENAX	030	MAP	TF		FO	0.3	256.4 (250.4T)	002.9	AT 00287	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		256.4 (250.4T)		AA 00500	
	HOLMU	050		DF	R	FO				AA 02000	
	HOLMU	060		HM	R	FO		095.6 (089.6T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CACSA	N253910.67	W0801159.90	N2539.178	W08011.998
	HOLMU	N253005.89	W0804505.93	N2530.098	W08045.099
	JIDBO	N253109.00	W0802855.43	N2531.150	W08028.924
	LUVLY	N253944.61	W0800819.67	N2539.744	W08008.328
	RONEY	N253359.64	W0802039.01	N2533.994	W08020.650
	ZENAX	N253010.24	W0803156.53	N2530.171	W08031.942
	ZURBU	N253157.58	W0802625.56	N2531.960	W08026.426
	RW28	N253010.00	W0803245.64	N2530.167	W08032.761

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28	00007	40

CITY AND STATE HOMESTEAD, FL	ELEVATION: 7	THRE: 7	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: HOMESTEAD GENERAL AVIATION		RNAV	RNAV (GPS) RWY 28, ORIG	AMDT: NONE
				6 FEBRUARY 2014	DATED:

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [30936](#); Amdt. No. [3571](#)

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

2

Federal Register as of [INSERT DATE OF PUBLICATION IN THE
FEDERAL REGISTER].

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

For Examination-

1. 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 [DECEMBER 20, 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 6 FEBRUARY 2014

Bettles, AK, Bettles, RNAV (GPS) RWY 19, Orig-A
 Deadhorse, AK, Deadhorse, RNAV (GPS) RWY 6, Orig, CANCELED
 Deadhorse, AK, Deadhorse, RNAV (GPS) RWY 24, Orig, CANCELED
 Klawock, AK, Klawock, RNAV (GPS) RWY 2, Orig-A
 Bakersfield, CA, Bakersfield Muni, Takeoff Minimums and Obstacle DP, Amdt 2
 Santa Monica, CA, Santa Monica Muni, VOR-A, Amdt 11
 Santa Rosa, CA, Charles M. Schulz - Sonoma County, RNAV (GPS) RWY 2, Orig
 Santa Rosa, CA, Charles M. Schulz - Sonoma County, Takeoff Minimums and Obstacle DP, Amdt 6
 Hailey, ID, Friedman Memorial, NDB/DME-A, Amdt 1
 Minneapolis, MN, Flying Cloud, RNAV (GPS) RWY 36, Amdt 2
 Minneapolis, MN, Flying Cloud, Takeoff Minimums and Obstacle DP, Amdt 6
 Minneapolis, MN, Flying Cloud, VOR/DME RWY 36, Amdt 1
 Chillicothe, MO, Chillicothe Muni, NDB RWY 14, Amdt 8, CANCELED
 Dillon, MT, Dillon, RNAV (GPS) RWY 17, Amdt 1
 Ennis, MT, Ennis - Big Sky, ENNIS ONE, Graphic DP
 Ennis, MT, Ennis - Big Sky, RNAV (GPS) RWY 16, Orig
 Ennis, MT, Ennis - Big Sky, Takeoff Minimums and Obstacle DP, Orig
 Omaha, NE, Eppley Airfield, ILS OR LOC/DME RWY 14R, ILS RWY 14R (SA CAT I), ILS RWY 14R (CAT II), ILS RWY 14R (CAT III), Amdt 5
 Omaha, NE, Eppley Airfield, ILS OR LOC/DME RWY 18, Amdt 9
 Mc Minnville, OR, Mc Minnville Muni, RNAV (GPS) RWY 4, Orig-A
 Philip, SD, Philip, RNAV (GPS) RWY 12, Orig
 Philip, SD, Philip, RNAV (GPS) RWY 30, Orig
 Philip, SD, Philip, Takeoff Minimums and Obstacle DP, Orig
 Philip, SD, Philip, VOR-A, Amdt 12
 Sioux Falls, SD, Joe Foss Field, RNAV (GPS) RWY 15, Amdt 1
 Sioux Falls, SD, Joe Foss Field, RNAV (GPS) RWY 33, Amdt 1
 Houston, TX, David Wayne Hooks Memorial, LOC RWY 17R, Amdt 3
 Houston, TX, David Wayne Hooks Memorial, RNAV (GPS) RWY 17R, Amdt 1B
 Houston, TX, David Wayne Hooks Memorial, RNAV (GPS) RWY 35L, Amdt 1A
 Waco, TX, Waco Rgnl, RNAV (GPS) RWY 32, Orig-C

Effective 6 MARCH 2014

Casa Grande, AZ, Casa Grande Muni, GPS RWY 23, Orig-B, CANCELED
 Polson, MT, Polson, Takeoff Minimums and Obstacle DP, Orig-A

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: LEVGE											
CYCLE	HUVAD (FB)	347.83 / 27.03	5100	CLIMB TO 3200 DIRECT SIYOD AND ON TRACK 193.07 TO MELME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 012.02 INBOUND. CHART FAS OBST: 1149 TREE 665630N/1512717W FAC CROSSES RWY C/L EXTENDED 3000 FROM THLD.											
TEGDE	OCUKU (FB)	139.98 / 7.11	8300												
OCUKU	IYOLU (FB)	141.18 / 8.77	7400												
HUVAD (IAF)	NOYIR (FB)	272.78 / 10.00	4300												
IYOLU (IAF)	NOYIR (FB)	220.22 / 6.50	4300												
NOYIR (IF)	WUTOM (FB)	212.51 / 3.50	3600												
WUTOM (SEE FORM 8260-10)	KIYEP (FB)	212.51 / 4.00	2400												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT NOYIR 3. FAC: <u>187.37</u> FAF: <u>KIYEP</u> DIST FAF TO MAP: <u>5.00</u> THLD: <u>5.49</u> 4. MIN. ALT: <u>NOYIR 4300, WUTOM 3600, KIYEP 2400</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> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u> </u> TCH: 34:1 IS NOT CLEAR 8. MSA FROM: <u>LEVGE 7100</u>				MAG VAR: 20E EPOCH YEAR: 2010											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		STANDARD @									
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1360	1	713	1360	1	713	1360	2	713	1360	2 1/4	713			
CIRCLING	1360	1	713	1360	1	713	1360	2	713	1360	2 1/4	713			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART PROFILE NOTE: DESCENT ANGLE NA. CHART NOTE: CIRCLING NA E OF RWY 01 - 19.															
CITY AND STATE BETTLES, AK				ELEVATION: 647 TDZE: 647 AIRPORT NAME: BETTLES		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-A 6 FEBRUARY 2014				SUP:			
												AMDT: ORIG			
												DATED 08/30/2007			

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
KIYEP	LEVGE (MAP) (FO)	187.37 / 5.00	
LEVGE (MAP)	1047 MSL	187.37	
1047 MSL	SIYOD (FB)		
SIYOD	MELME (FO)	193.07 / 11.51	3200

QUALITY
9
CHECKED

CITY AND STATE
BETTLES, AK

ELEVATION: 647 TDZE: 647
 AIRPORT NAME:
 BETTLES

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 19, ORIG-A
 6 FEBRUARY 2014

SUP:
 AMDT: ORIG
 DATED: 08/30/2007

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SCANP	PABTPAFR19	ACYCLE	010CYCLEPAEA0E	IF						18000		B JS	
SCANP	PABTPAFR19	ACYCLE	020HUVADPAEA0E	A 020TF			34780270	+ 05100				B JS	
SCANP	PABTPAFR19	ACYCLE	030NOYIRPAEA0EE	B 010TF			27280100	+ 04300				B JS	
SCANP	PABTPAFR19	ATEGDE	010TEGDEPAEA0E	IF						18000		B JS	
SCANP	PABTPAFR19	ATEGDE	020OCUKUPAEA0E	020TF			14000071	+ 08300				B JS	
SCANP	PABTPAFR19	ATEGDE	030IYOLUPAEA0E	A 020TF			14120088	+ 07400				B JS	
SCANP	PABTPAFR19	ATEGDE	040NOYIRPAEA0EE	B 010TF			22020065	+ 04300				B JS	
SCANP	PABTPAFR19	R	010NOYIRPAEA0E	I IF				+ 04300		18000		B JS	
SCANP	PABTPAFR19	R	011WUTOMPAEA0E	S 051TF			21250035	+ 03600				B JS	
SCANP	PABTPAFR19	R	020KIYEPPAEA1E	F 051TF			21250040	+ 02400			LEVGE PAEAB	JS	
SCANP	PABTPAFR19	R	020KIYEPPAEA2WN		N	ALNAV						JS	
SCANP	PABTPAFR19	R	030LEVGEPAEA0EY	M 031TF			18740050	01360		000		B JS	
SCANP	PABTPAFR19	R	040	O M CA			1874	+ 01047				B JS	
SCANP	PABTPAFR19	R	050SIYODPAEA0E	DF								B JS	
SCANP	PABTPAFR19	R	060MELMEPAEA0EY	010TF			1931	+ 03200				B JS	
SCANP	PABTPAFR19	R	070MELMEPAEA0EE	R HM			01200040	+ 03200				B JS	

[illegible]

CITY AND STATE BETTLES, AK	ELEVATION: 647	TDZE: 647	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	BETTLES	RNAV	RNAV (GPS) RWY 19, ORIG-A	AMDT: ORIG
				6 FEBRUARY 2014	DATED: 08/30/2007

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are 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]

100-443887-100

CITY AND STATE BETTLES, AK	ELEVATION: 647 AIRPORT NAME: BETTLES	TDZE: 647 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 19, ORIG-A 6 FEBRUARY 2014	SUP:
					AMDT: ORIG
					DATED: 08/30/2007

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
	CYCLE	CYCLE	010		IF		FB					
	CYCLE	HUVAD	020	IAF	TF		FB	2.0	347.8 (007.8T)	027.0	AA 05100	
	CYCLE	NOYIR	030		TF		FB	1.0	272.8 (292.8T)	010.0	AA 04300	
	TEGDE	TEGDE	010		IF		FB					
	TEGDE	OCUKU	020		TF		FB	2.0	140.0 (160.0T)	007.1	AA 08300	
	TEGDE	IYOLU	030	IAF	TF		FB	2.0	141.2 (161.2T)	008.8	AA 07400	
	TEGDE	NOYIR	040		TF		FB	1.0	220.2 (240.2T)	006.5	AA 04300	
		NOYIR	010	FACF	IF		FB				AA 04300	
		WUTOM	011	SDF	TF		FB	0.5	212.5 (232.5T)	003.5	AA 03600	
		KIYEP	020	FAF	TF		FB	0.5	212.5 (232.5T)	004.0	AA 02400	
		LEVGE	030	MAP	TF		FO	0.3	187.4 (207.4T)	005.0	AT 01360	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		187.4 (207.4T)		AA 01047	
	SIYOD	050		DF		FB				AA 03200	
	MELME	060		TF		FO	1.0	193.1 (213.1T)		AA 03200	
	MELME	070		HM	R	FO		012.0 (032.0T)	004.0	AA 03200	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CYCLE	N663405.34	W1505519.47	N6634.089	W15055.325
	HUVAD	N670046.14	W1504556.00	N6700.769	W15045.933
	IYOLU	N670749.53	W1505504.66	N6707.826	W15055.078
	KIYEP	N670002.29	W1512439.35	N6700.038	W15124.656
	LEVGE	N665536.72	W1513029.64	N6655.612	W15130.494
	MELME	N664421.16	W1514828.20	N6644.353	W15148.470
	NOYIR	N670435.89	W1510929.70	N6704.598	W15109.495
	OCUKU	N671605.94	W1510219.37	N6716.099	W15102.323
	SIYOD	N665358.41	W1513238.72	N6653.974	W15132.645
	TEGDE	N672245.18	W1510835.30	N6722.753	W15108.588
	WUTOM	N670228.39	W1511634.91	N6702.473	W15116.582
	RW19	N665511.77	W1513109.82	N6655.196	W15131.164

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW19	00647	00

CITY AND STATE BETTLES, AK	ELEVATION: 647	TDZE: 647	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	BETTLES	RNAV	RNAV (GPS) RWY 19, ORIG-A	AMDT: ORIG
				6 FEBRUARY 2014	DATED: 08/30/2007

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES								MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE			ALTITUDE								
									ADDITIONAL FLIGHT DATA:						
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. _____															
3. FAC: _____ FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: _____															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____															
7. GS ANGLE: _____ TCH: _____															
8. MSA FROM: _____															
										MAG VAR:		EPOCH YEAR:			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A							
CATEGORY ==>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
NOTES:															
PROCEDURE CANCELED EFFECTIVE <u>6 FEBRUARY 2014</u>															
CITY AND STATE DEADHORSE, AK				ELEVATION: 65 THRE: 58 AIRPORT NAME: DEADHORSE				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, ORIG, 31 MAY 2012				SUP: AMDT: NONE DATED	

QUALITY
1
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES												MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LNAV: EXOFY LP: EXOFY CLIMBING LEFT TURN TO 4200 DIRECT BOHBI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4200. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 878 TREE 553307N/1330847W FAS OBST: 399 AAO 553148N/1330828W WAAS CHANNEL # 58032 REFERENCE PATH ID: W02A CHART CIRCLING ICON. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 4.74 DEGREES. LTP HAE: 8.3 M							
UDENE		EXOFY (FB)		201.82 / 10.66				4800									
EXOFY		BOHBI (FO)		203.98 / 11.80				4500									
BOHBI (IF/IAF)		SYGGR (FB)		023.78 / 4.80				3300									
SYGGR (FAF)		ABASI/3.70 NM TO EXOFY (FB)		023.86 / 3.30													
ABASI/3.70 NM TO EXOFY		EXOFY (MAP) (FO)		023.86 / 3.70													
EXOFY (MAP)		480 MSL		023.86													
480 MSL		BOHBI (FO)						4200									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SW BOHBI, RT, 023.78 INBOUND, 3800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>023.86</u> FAF: <u>SYGGR</u> DIST FAF TO MAP: <u>7.00</u> THLD: <u>8.20</u> 4. MIN. ALT: <u>BOHBI 3800, SYGGR 3300, ABASI/3.70 NM TO EXOFY 1980</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> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u> </u> TCH: <u>34:1</u> IS NOT CLEAR 8. MSA FROM: <u>EXOFY 5200</u>												MAG VAR: 20E EPOCH YEAR: 2015					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N/A		STANDARD @					
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LP MDA	1140	1 1/2	1101	1140	1 1/2	1101	1140	3	1101		NA						
LNAV MDA	1560	1 1/2	1521	1560	1 1/2	1521	1560	3	1521		NA						
CIRCLING	1560	1 1/2	1480	1560	1 1/2	1480	1560	3	1480		NA						
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: CIRCLING NA EAST OF RWY 02-20. (SEE FORM 8260-10)																	
CITY AND STATE				ELEVATION: 80 THRE: 39				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
Klawock, AK				AIRPORT NAME: Klawock				RNAV (GPS) RWY 2, ORIG-A 6 FEBRUARY 2014				AMDT: ORIG					
												DATED 06/27/2013					

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

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NOTES, (CONT.):

CHART NOTE AT BOHBI: 210 KIAS.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED PROCEDURE NA.

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

QUALITY
4
2

CITY AND STATE

KLAWOCK, AK

ELEVATION: 80

THRE: 39

AIRPORT NAME:

KLAWOCK

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 2, ORIG-A

6 FEBRUARY 2014

SUP:

AMDT: ORIG

DATED: 06/27/2013

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 PAKW
RUNWAY RW02
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W02A
LTP LATITUDE 553426.1200N
LTP LONGITUDE 1330501.0400W
LTP/FTP ELLIPSOIDAL HEIGHT +00083
FPAP LATITUDE 553530.0790N
FPAP LONGITUDE 1330311.9615W
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 0000
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 0.0

CRC REMAINDER

CC4A1631

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE PA
LTP ORTHOMETRIC HEIGHT +00119
FPAP ORTHOMETRIC HEIGHT +00119

CITY AND STATE

KLAUOCK, AK

ELEVATION: 80

THRE: 39

AIRPORT NAME:

KLAUOCK

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 2, ORIG-A

6 FEBRUARY 2014

SUP:

AMDT: ORIG

DATED: 06/27/2013

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[illegible][illegible][illegible][illegible][illegible][illegible]

SUP:	
AMDT:	ORIG
DATED:	06/27/2013

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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SCANP PAKWPASEXOFYPAEA

0 18018005225

M

CITY AND STATE
KLAWOCK, AK

ELEVATION: **80** **THRE: 39**
AIRPORT NAME:
KLAWOCK

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 2, ORIG-A
6 FEBRUARY 2014

SUP:
AMDT: **ORIG**
DATED: **06/27/2013**

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
	UDENE	UDENE	010		IF		FB					
	UDENE	EXOFY	020		TF		FB	2.0	201.8 (221.8T)	010.7	AA 04800	
	UDENE	BOHBI	030		TF		FO	2.0	204.0 (224.0T)	011.8	AA 04500	
	UDENE	BOHBI	040	IAF	HF	R	FO		023.8 (043.8T)	004.0	AA 03800	AB 210
		BOHBI	010	FACF	IF		FB				AA 03800	
		SYGGR	020	FAF	TF		FB	0.5	023.8 (043.8T)	004.8	AA 03300	
		ABASI	021	SDF	TF		FB	0.3	023.9 (043.9T)	003.3	AA 01980	
		EXOFY	030	MAP	TF		FO	0.3	023.9 (043.9T)	003.7	AT 01560	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		023.9 (043.9T)		AA 00480	
	BOHBI	050		DF	L	FO				AA 04200	AB 210
	BOHBI	060		HM	R	FO		023.8 (043.8T)	004.0	AA 04200	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ABASI	N553054.89	W1331100.28	N5530.915	W13311.005
	BOHBI	N552505.08	W1332051.80	N5525.085	W13320.863
	EXOFY	N553334.42	W1330629.12	N5533.574	W13306.485
	SYGGR	N552832.47	W1331501.62	N5528.541	W13315.027
	UDENE	N554130.61	W1325358.42	N5541.510	W13253.974
	RW02	N553426.12	W1330501.04	N5534.435	W13305.017

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW02	00039	00

CITY AND STATE KLAWOCK, AK	ELEVATION: 80	THRE: 39	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	KLAWOCK	RNAV	RNAV (GPS) RWY 2, ORIG-A	AMDT: ORIG
				6 FEBRUARY 2014	DATED: 06/27/2013

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

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

City, State	Airport	Effective Date	Amdt. No.
BAKERSFIELD, CA	BAKERSFIELD MUNI	6 FEBRUARY 2014	2

TAKEOFF MINIMUMS:

RWY 16 - STANDARD.

RWY 34 - 400 – 1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 555 FT PER NM TO 900.

TEXTUAL DEPARTURE PROCEDURES:

RWY 16 - CLIMBING RIGHT TURN DIRECT EHF VORTAC, THENCE...

RWY 34 - CLIMBING LEFT TURN DIRECT EHF VORTAC, THENCE...

...AIRCRAFT DEPARTING EHF VORTAC R-180 CW R-360 CLIMB ON COURSE, AIRCRAFT DEPARTING EHF VORTAC R-001 CW R-100 CONTINUE CLIMB IN EHF VORTAC HOLDING PATTERN (HOLD NW, RT, 144 INBOUND) TO CROSS EHF VORTAC AT OR ABOVE 5200 THEN PROCEED ON COURSE, AIRCRAFT DEPARTING EHF VORTAC R-101 CW R-179 CONTINUE CLIMB IN EHF VORTAC HOLDING PATTERN (HOLD NW, RT, 144 INBOUND) TO CROSS EHF VORTAC AT OR ABOVE 4100 THEN PROCEED ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 16: LIGHT POLE 168 FT FROM DER, 498 FT LEFT OF CENTERLINE, 26 FT AGL/400 FT MSL. TREE 395 FT FROM DER, 491 FT LEFT OF CENTERLINE, 40 FT AGL/400 FT MSL. POWERLINES BEGINNING 546 FT FROM DER, 608 FT RIGHT OF CENTERLINE, 120 FT AGL/474 FT MSL. POLE 644 FT FROM DER, 474 FT LEFT OF CENTERLINE, 30 FT AGL/403 FT MSL. TREES BEGINNING 1603 FT FROM DER, 196 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/453 FT MSL. OBSTRUCTION LIGHT ON TRANSMISSION TOWER 2464 FT FROM DER, 780 FT LEFT OF CENTERLINE, 106 FT AGL/477 FT MSL. CATENARY 2486 FT FROM DER, 484 FT LEFT OF CENTERLINE, 106 FT AGL/477 FT MSL. CATENARY 2529 FT FROM DER, 725 FT RIGHT OF CENTERLINE, 111 FT AGL/483 FT MSL. OBSTRUCTION LIGHT ON TRANSMISSION TOWER 2539 FT FROM DER, 214 FT RIGHT OF CENTERLINE, 107 FT AGL/478 FT MSL. CATENARY 2540 FT FROM DER, 482 FT RIGHT OF CENTERLINE, 111 FT AGL/482 FT MSL.

RWY 34: TREES BEGINNING 604 FT FROM DER, 341 FT RIGHT OF CENTERLINE, 40 FT AGL/419 FT MSL. TOWER 5100 FT FROM DER, 1646 FT RIGHT OF CENTERLINE, 266 FT AGL/656 FT MSL. VEHICLES ON ROAD 764 FT FROM DER, 499 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/399 FT MSL. HANGER 372 FT FROM DER, 545 FT LEFT OF CENTERLINE, 20 FT AGL/404 FT MSL.

CONTROLLING OBSTACLES:

RWY 34: 656 FT TOWER 352041.00N/1185934.00W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 16: 7160 FT MSL AAO 351224.77N/1183826.24W; 7775 FT MSL TOWER 352711.00N/1183528.00W; 9040 FT MSL AAO 344848.43N-1190843.30W.

RWY 34: 7160 FT MSL AAO 351224.77N/1183826.24W; 7775 FT MSL TOWER 352711.00N/1183528.00W; 9040 FT MSL AAO 344848.43N-1190843.30W.

QUALITY
1
CHECKED

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.
BAKERSFIELD, CA	BAKERSFIELD MUNI	6 FEBRUARY 2014	2

REMARKS:

FLIGHT INSPECTED BY:

James M. 

6-21-13

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

PETER GETZ
(HEIDI SNIDER)  AJV-354

03/06/2013

APPROVED BY:

DEB COPELAND  AJV-354

NOV 04 2013

COORDINATED WITH:

ALPA, AOPA, NBAA, ZLA, BFL ATCT, BFL APCH, ARPT MGR

CHANGES:

1. RWY 16 TAKE-OFF MINIMUMS CHANGED FROM 300-1 OR STANDARD WITH A MINIMUM CLIMB OF 230 FT PER NM TO 500 TO STANDARD.
2. RWY 34 TAKE-OFF MINIMUMS CHANGED FROM 400-2 OR STANDARD WITH A MINIMUM CLIMB OF 400 FT PER NM TO 800 TO 400 – 1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 555 FT PER NM TO 900.
3. ADDED TAKE-OFF OBSTACLES NOTES.
4. REMOVED RWY 16 TAKE-OFF CONTROLLING OBSTACLE.
5. UPDATED TEXTUAL DP INSTRUCTIONS, CHANGED AND ADDED CLIMB IN HOLD ALTITUDES AND RADIALS.

REASONS:

- 1-2. IAPA/MAPSTUDY AND IAW 8260.3B, VOLUME 4, PAR 1.4.1 AND PAR 1.4.2.
3. IAW 8260.46D APPENDIX D SECTION 1, PAR 8.
4. IAW 8260.46D APPENDIX D SECTION 1, PAR 9. OBSTACLE IS CLEAR.
5. IAW 8260.3B, VOLUME 4, PAR 1.4.1 AND PAR 1.4.2, OBSTACLE CLEARANCE REQUIREMENTS.

10/30/2013 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 3/6/2013

1. CORRECTED CHANGES ITEM 2 300- 1 1/4 TO 400 – 1 1/4.

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: SMO VOR/DME								
ELMOO INT/VNY 21.76 DME (IAF)			ZISDI INT/VNY 15.76 DME			275.00 / 6.00 (VNY R-095)			4600		CLIMB TO 5000 ON SMO VOR/DME R-250 AND ON FIM VORTAC R-148 TO SADDE INT/FIM 19.89 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.								
ZISDI INT/VNY 15.76 DME			DARTS/SMO 12.78 DME			275.00 / 3.99 (VNY R-095)			4400										
DARTS/SMO 12.78 DME (IF)			WAGBI INT/SMO 9.00 DME			211.83 / 3.78 (SMO R-032)			3200		ADDITIONAL FLIGHT DATA: HOLD NW, LT, 148.00 INBOUND. CHART FAS OBST: 863 BLDG 340332N/1182447W CHART CIRCLING ICON. FAC 455L OF RWY 21 C/L AT THLD.								
WAGBI INT/SMO 9.00 DME			BEVEY INT/SMO 6.70 DME/RADAR			211.83 / 2.30 (SMO R-032)			2500										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 15E EPOCH YEAR:1975									
2. PROFILE STARTS AT DARTS																			
3. FAC 211.83 FAF BEVEY INT/SMO 6.70 DME/RADAR DIST FAF TO MAP _____ THLD _____																			
4. MIN. ALT DARTS 4400, WAGBI 3200, BEVEY 2500, WURUD/SMO 4.50 DME/RADAR 1640																			
8. MSA FROM: SMO VOR/DME 260-070 7800, 070-260 4100																			
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X									
CATEGORY =====>		A			B			C			D			E					
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA			
CIRCLING		1120	1 1/4	943	1120	1 1/4	943	1180	3	1003	1180	3	1003						
NOTES:																			
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ELMOO ON V186 SOUTHEAST BOUND.																			
CHART NOTE: CIRCLING NA NW OF RWY 3-21.																			
CHART NOTE: PROCEDURE NA AT NIGHT.																			
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																			
CHART NOTE: WHEN CONTROL TOWER CLOSED, DME REQUIRED.																			
CITY AND STATE SANTA MONICA, CA				ELEVATION: 177 TDZE: AIRPORT NAME: SANTA MONICA MUNI				FACILITY IDENTIFIER: SMO				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 11 6 FEBRUARY 2014				SUP VOR OR GPS-A AMDT 10D DATE 09/25/2008			



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

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CITY AND STATE

SANTA MONICA, CA

ELEVATION: 177

TDZE:

AIRPORT NAME:

SANTA MONICA MUNI

FACILITY
IDENTIFIER:

SMO

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR-A, AMDT 11

6 FEBRUARY 2014

SUP: **VOR OR GPS-A**AMDT: **10D**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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TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE												
PYE VORTAC (IAF)	YAPUB (FB)	329.22 / 15.03	3000	LP: ZIVMA LNAV: ZIVMA											
BOARS (IAF)	YAPUB (FB)	039.79 / 10.16	3000												
YAPUB (IF)	NAYIR (FB)	013.09 / 6.67	2000	CLIMB TO 6000 DIRECT UVNOQ AND ON TRACK 290.61 TO CABEX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000.											
NAYIR (FAF)	ZASBU/1.14 NM TO ZIVMA (FB)	013.13 / 3.74													
ZASBU/1.14 NM TO ZIVMA	ZIVMA (MAP) (FO)	013.13 / 1.14		ADDITIONAL FLIGHT DATA: HOLD SE, LT, 311.00 INBOUND. CHART FAS OBST: 274 TREE 383001N/1224936W CHART FAS OBST: 489 TREE 382912N/1225059W 555 AAO 382521N/1225312W. 610 AAO 382530N/1225418W. WAAS CHANNEL # 69230 REFERENCE PATH ID: W02A NAYIR TO RW02: 3.00/45. CHART CIRCLING ICON. LTP HAE: 7.8 M											
ZIVMA (MAP)	500 MSL	013.13													
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT YAPUB 3. FAC: <u>013.13</u> FAF: <u>NAYIR</u> DIST FAF TO MAP: <u>4.88</u> THLD: <u>5.74</u> 4. MIN. ALT: YAPUB 3000, NAYIR 2000, ZASBU/1.14 NM TO ZIVMA 800 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> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u> </u> TCH: 34:1 IS NOT CLEAR 8. MSA FROM: ZIVMA 6000				MAG VAR: 16E 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
LP MDA	500	1	371	500	1	371	500	1	371	500	1	371			
LNAV MDA	660	1	531	660	1	531	660	1 1/2	531	660	1 1/2	531			
CIRCLING	660	1	531	800	1	671	1180	3	1051	1380	3	1251			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BOARS ON V199 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PYE VORTAC AIRWAY RADIALS 335 CW 349. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 129 THRE: 129		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
SANTA ROSA, CA		AIRPORT NAME:		CHARLES M. SCHULZ - SONOMA COUNTY		RNAV (GPS) RWY 2, ORIG				AMDT: NONE					
						6 FEBRUARY 2014				DATED					

QUALITY
2
CHECKED

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
500 MSL	UVNOQ (FB)		
UVNOQ	CABEX (FO)	290.61 / 18.87	6000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PETALUMA ALTIMETER SETTING AND INCREASE ALL MDA 60 FT AND VISIBILITY LP AND LNAV CATS C AND D 1/4 MILE.

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

QUALITY
2
CHECKED

CITY AND STATE
SANTA ROSA, CA

ELEVATION: 129 THRE: 129
AIRPORT NAME:
CHARLES M. SCHULZ - SONOMA COUNTY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 2, ORIG
6 FEBRUARY 2014

SUP:
AMDT: NONE
DATED:

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 KSTS
RUNWAY RW02
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR W02A
REFERENCE PATH IDENTIFIER (APPROACH ID) 383011.3965N
LTP/FTP LATITUDE 1224915.4635W
LTP/FTP LONGITUDE +00078
LTP/FTP ELLIPSOIDAL HEIGHT 383129.2720N
FPAP LATITUDE 1224820.1245W
FPAP LONGITUDE 00045.0
THRESHOLD CROSSING HEIGHT (TCH) F
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00
GLIDEPATH ANGLE (GPA) 106.75
COURSE WIDTH AT THRESHOLD 1224
LENGTH OFFSET 40.0
HORIZONTAL ALERT LIMIT (HAL) 0.0
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

1E8ADD03

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K2
LTP ORTHOMETRIC HEIGHT +00392
FPAP ORTHOMETRIC HEIGHT +00392

QUALITY
2
CHECKED

CITY AND STATE SANTA ROSA, CA	ELEVATION: 129	THRE: 129	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, ORIG 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: CHARLES M. SCHULZ - SONOMA COUNTY	AMDT: NONE			
	DATED:				

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KSTSK2FR02	ABOARS	010BOARSK2EA0E	A	IF						18000		A JS	
SUSAP KSTSK2FR02	ABOARS	020YAPUBK2EA0EE	B	010TF			03980102	+	03000			A JS	
SUSAP KSTSK2FR02	APYE	010PYE K2D 0V	A	IF						18000		A JS	
SUSAP KSTSK2FR02	APYE	020YAPUBK2EA0EE	B	010TF			32920150	+	03000			A JS	
SUSAP KSTSK2FR02	R	010YAPUBK2EA0E	I	IF				+	03000	18000		A JS	
SUSAP KSTSK2FR02	R	020NAYIRK2EA1E	F	051TF			01310067	+	02000		ZIVMA K2EAA	JS	
SUSAP KSTSK2FR02	R	020NAYIRK2EA2WALP			N	ALNAV						JS	
SUSAP KSTSK2FR02	R	021ZASBUK2EA0E	S	031TF			01310037	V	0080000810	-300		A JS	
SUSAP KSTSK2FR02	R	030ZIVMAK2EA0EY	M	031TF			01310011		00446	-300		A JS	
SUSAP KSTSK2FR02	R	040	0	M	CA		0131	+	00500			A JS	
SUSAP KSTSK2FR02	R	050UVNOQK2EA0E		DF								A JS	
SUSAP KSTSK2FR02	R	060CABEXK2EA0EY		010TF			2906	+	06000			A JS	
SUSAP KSTSK2FR02	R	070CABEXK2EA0EE	L	HM			31100060	+	06000			A JS	

[illegible]

CITY AND STATE
SANTA ROSA, CA

ELEVATION: 129 THRE: 129
AIRPORT NAME:
CHARLES M. SCHULZ - SONOMA COUNTY

FACILITY
IDENTIFIER:
| RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 2, ORIG
6 FEBRUARY 2014

SUP:	
AMDT:	NONE
DATED:	

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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[illegible]

CITY AND STATE
SANTA ROSA, CA

ELEVATION: 129 THRE: 129
AIRPORT NAME:
CHARLES M. SCHULZ - SONOMA COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 2, ORIG
 6 FEBRUARY 2014

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
	BOARS	BOARS	010	IAF	IF		FB					
	BOARS	YAPUB	020		TF		FB	1.0	039.8(055.8T)	010.2	AA 03000	
	PYE	PYE	010	IAF	IF		FB					
	PYE	YAPUB	020		TF		FB	1.0	329.2(345.2T)	015.0	AA 03000	
		YAPUB	010	FACF	IF		FB				AA 03000	
		NAYIR	020	FAF	TF		FB	0.5	013.1(029.1T)	006.7	AA 02000	
		ZASBU	021	SDF	TF		FB	0.3	013.1(029.1T)	003.7	AA 00800	GS 00810
		ZIVMA	030	MAP	TF		FO	0.3	013.1(029.1T)	001.1	AT 00446	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		013.1(029.1T)		AA 00500	
	UVNOQ	050		DF		FB					
	CABEX	060		TF		FO	1.0	290.6(306.6T)		AA 06000	
	CABEX	070		HM	L	FO		311.0(327.0T)	006.0	AA 06000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	PYE	N380447.12	W1225204.18	N3804.785	W12252.070
	BOARS	N381337.53	W1230737.26	N3813.626	W12307.621
	CABEX	N384804.30	W1230354.68	N3848.072	W12303.911
	NAYIR	N382510.47	W1225248.94	N3825.175	W12252.816
	UVNOQ	N383649.91	W1224431.99	N3836.832	W12244.533
	YAPUB	N381920.19	W1225656.67	N3819.337	W12256.945
	ZASBU	N382826.49	W1225029.94	N3828.442	W12250.499
	ZIVMA	N382926.51	W1224947.34	N3829.442	W12249.789
	RW02	N383011.40	W1224915.46	N3830.190	W12249.258

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW02	00129	45

CITY AND STATE
SANTA ROSA, CA

ELEVATION: **129** THRE: **129**
 AIRPORT NAME:
CHARLES M. SCHULZ - SONOMA COUNTY

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 2, ORIG
6 FEBRUARY 2014

SUP:
 AMDT: **NONE**
 DATED:

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.
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	6 FEBRUARY 2014	6

TAKEOFF MINIMUMS:

RWY 14, STANDARD.

RWY 20, STANDARD.

RWY 2, STANDARD WITH MINIMUM CLIMB OF 319 FT PER NM TO 2400, OR 1200-2 1/2 FOR CLIMB IN VISUAL CONDITIONS.

RWY 32, STANDARD WITH MINIMUM CLIMB OF 391 FT PER NM TO 2500, OR 1200-2 1/2 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWY 2 – CLIMBING LEFT TURN HEADING 164.00, THENCE... OR FOR CLIMB IN VISUAL CONDITIONS: CROSS STS VOR/DME SOUTHWEST BOUND AT OR ABOVE 1200. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE. THENCE...

RWY 14 – CLIMBING RIGHT TURN HEADING 250.00, THENCE...

RWY 20 – CLIMB ON HEADING 190.00, THENCE...

RWY 32 – CLIMBING LEFT TURN HEADING 164.00, THENCE... OR FOR CLIMB IN VISUAL CONDITIONS: CROSS STS VOR/DME SOUTHWEST BOUND AT OR ABOVE 1200. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE. THENCE...

...INTERCEPT AND CLIMB VIA STS R-202.49 TO FREES INT, CROSS FREES AT OR ABOVE MEA FOR ROUTE OF FLIGHT OR CONTINUE CLIMB IN FREES HOLDING PATTERN (HOLD SE, RIGHT TURNS, PYE VORTAC 334.73° INBOUND) TO MEA FOR ROUTE OF FLIGHT.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 2, LIGHT STRUCTURE 2 FT FROM DER, 126 FT RIGHT OF CENTERLINE, 1 FT AGL/115 FT MSL. MULTIPLE TREES BEGINNING 673 FT FROM DER, 36 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/156 FT MSL. MULTIPLE TREES BEGINNING 696 FT FROM DER, 288 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/156 FT MSL. MULTIPLE TREES BEGINNING 1066 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/166 FT MSL. MULTIPLE TREES BEGINNING 1054 FT FROM DER, 114 FT RIGHT OF CENTERLINE, UP TO 70 FT AGL/184 FT MSL. MULTIPLE TREES BEGINNING 2014 FT FROM DER, 620 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/178 FT MSL. MULTIPLE TREES BEGINNING 2025 FT FROM DER, 341 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/196 FT MSL.

NOTE: RWY 14, TREE 1 FT FROM DER, 498 FT RIGHT OF CENTERLINE, 20 FT AGL/136 FT MSL. LIGHT STRUCTURE 6 FT FROM DER, 40 FT LEFT OF CENTERLINE, 1 FT AGL/121 FT MSL. MULTIPLE TREES BEGINNING 409 FT FROM DER, 423 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/147 FT MSL. MULTIPLE TREES BEGINNING 1201 FT FROM DER, 275 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/167 FT MSL. TREE 2194 FT FROM DER, 1034 FT RIGHT OF CENTERLINE, 60 FT AGL/180 FT MSL. NOTE: RWY 20, TREE 108 FT FROM DER, 462 FT RIGHT OF CENTERLINE, 40 FT AGL/162 FT MSL. MULTIPLE TREES BEGINNING 1596 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/187 FT MSL. MULTIPLE TREES BEGINNING 1498 FT FROM DER, 566 FT RIGHT OF CENTERLINE, UP TO 144 FT AGL/274 FT MSL. MULTIPLE TREES BEGINNING 2841 FT FROM DER, 109 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/228 FT MSL. TREE 2684 FT FROM DER, 1116 FT RIGHT OF CENTERLINE, 70 FT AGL/198 FT MSL. NOTE: RWY 32, POLES AND LIGHT STRUCTURES 32 FT FROM DER, 150 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/133 FT MSL. POLES AND LIGHT STRUCTURES 2 FT FROM DER, 40 FT RIGHT OF CENTERLINE, UP TO 4 FT AGL/116 FT MSL. TREE 968 FT FROM DER, 473 FT LEFT OF CENTERLINE, 33 FT AGL/147 FT MSL. MULTIPLE TREES BEGINNING 626 FT FROM DER, 246 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/156 FT MSL. MULTIPLE TREES BEGINNING 1139 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/156 FT MSL. MULTIPLE TREES BEGINNING 1110 FT FROM DER, 509 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/171 FT MSL. TREE 4067 FT FROM DER, 141 FT LEFT OF CENTERLINE, 167 FT AGL/257 FT MSL.

CONTROLLING OBSTACLES:

VCOA: 890 FT MSL TREE 383127.72N/1224459.75W.

RWY 2: 1640 FT MSL AAO 383129.54N/1225521.57W, 1852 FT MSL AAO 383223.02N/1225740.60W.

RWY 32: 1640 FT MSL AAO 383129.54N/1225521.57W, 1852 FT MSL AAO 383223.02N/1225740.60W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 2, 14, 20, 32 – 4544 FT MSL AAO 384009.00N/1223800.00W.

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.
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	6 FEBRUARY 2014	6

FLIGHT INSPECTED BY:

James M. Meek



12/6/13

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

DANIEL D OLSON



AJW-354

07/15/2013

APPROVED BY:

LARRY H STROUT



AJW-354

DEC 11 2013

COORDINATED WITH:

ZOA, AMGR, STS ATCT, NBAA, AOPA, ALPA, ATA, APA

CHANGES:

1. CHANGED RWY 1/19 TO RWY 2/20.
2. CHANGED RWY 2 "MINIMUM CLIMB OF 267 FT PER NM" TO "MINIMUM CLIMB OF 319 FT PER NM."
3. CHANGED RWY 32 "MINIMUM CLIMB OF 314 FT PER NM TO 2400" TO "MINIMUM CLIMB OF 391 FT PER NM TO 2500."
4. CHANGED VCOA CEILING FROM 1000 TO 1200.
5. ADDED "WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE." AFTER VCOA PROCEDURE.
6. CHANGED "CROSS STS VOR/DME SOUTHWEST BOUND AT OR ABOVE 1100" TO "CROSS STS VOR/DME SOUTHWEST BOUND AT OR ABOVE 1200"
7. REVISED TAKEOFF OBSTACLE NOTES.

REASONS:

1. RWY RENUMBERING.
2. NEW CONTROLLING OBSTACLE.
3. NEW CONTROLLING OBSTACLE.
4. NEW VCOA CONTROLLING OBSTACLE.
5. AS PER CRITERIA.
6. NEW VCOA CONTROLLING OBSTACLE.
7. NEW SURVEY.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: MASDL/ 4.95 DME						
REAPS INT		HLE NDB/DME		313.46 / 11.98				8800		CLIMBING LEFT TURN TO 8800 DIRECT HLE NDB AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, LT, 334.76 INBOUND. CHART FAS OBST: 7739 TREE 433005N/1141455W CHART 8800 PRIOR TO HLE NDB/DME IN PROFILE. CHART CIRCLING ICON. CHART PROFILE NOTE: FLY VISUAL TO AIRPORT, 335.00 DEGREE COURSE, 5.2 NM. CHART PLANVIEW NOTE: FLY VISUAL TO AIRPORT. FAC CROSSES MIDPOINT OF RWY 13-31.						
KINZE INT		HLE NDB/DME		010.14 / 16.22				8800								
SOLDE INT		HLE NDB/DME		060.24 / 15.15				8800								
HLE NDB/DME		PUWIR/1.00 DME		334.76 / 1.00				8100								
1. PT <u>R</u> SIDE OF COURSE <u>154.76</u> OUTBOUND <u>8100</u> FT WITHIN <u>10</u> MILES OF <u>HLE NDB/DME</u> (IAF)														MAG VAR: 13E EPOCH YEAR: 2015		
2.																
3. FAC <u>334.76</u> FAF <u>PUWIR/1.00 DME</u> DIST FAF TO MAP <u> </u> THLD <u> </u>																
4. MIN. ALT <u>HLE NDB/DME 8100, PUWIR 8100</u>																
8. MSA FROM: <u>HLE NDB/DME 085-260 8000, 260-085 13300</u>																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X				
CATEGORY ==>		A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
CIRCLING	8040	5	2720	8040	5	2720	8040	5	2720			NA				
NOTES: CHART NOTE: CIRCLING NA NE OF RWY 13-31. CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART: WHEN CONTROL TOWER CLOSED, PROCEDURE NOT AUTHORIZED. CHART NOTE: OCCASIONAL ADF NEEDLE SWINGS AWAY FROM THE FINAL APPROACH COURSE ARE TO BE EXPECTED (SEE FORM 8260-10)																
CITY AND STATE				ELEVATION: 5320		THRE:		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP NDB/DME OR GPS-		
HAILEY, ID				AIRPORT NAME:		FRIEDMAN MEMORIAL		HLE		NDB/DME-A, AMDT 1 6 FEBRUARY 2014				A		
														AMDT ORIG-B		
														DATE 05/10/2007		

QUALITY
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**NDB/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

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NOTES, (CONT.):

NORTH OF MISSED APPROACH POINT.

CHART NOTE: PROCEDURE NA AT NIGHT.

QUALITY
3
CHECKED

CITY AND STATE

HAILEY, ID

ELEVATION: 5320

THRE:

AIRPORT NAME:

FRIEDMAN MEMORIAL

FACILITY
IDENTIFIER:

HLE

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB/DME-A, AMDT 1

6 FEBRUARY 2014

SUP: NDB/DME OR GPS-A

AMDT: ORIG-B

DATED: 05/10/2007

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE				
WULEP (IAF)	OCEWA (NOPT) (FB)	056.71 / 7.01	3000	LP: RW36 LNAV: RW36			
PRAGS (IAF)	OCEWA (NOPT) (FB)	001.84 / 8.12	3000				
AHMIT (IAF)	OCEWA (NOPT) (FB)	304.90 / 15.46	3000	CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT OCEWA AND HOLD.			
OCEWA (IF/IAF)	IJEYU (FB)	002.99 / 5.10	2500				
IJEYU (FAF)	JESVA/1.80 NM TO RW36 (FB)	003.00 / 3.11		ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1002 TOWER 444758N/0932725W CHART FAS OBST: 1019 TREE 444908N/0932701W WAAS CHANNEL # 82635 REFERENCE PATH ID: W36A CHART CIRCLING ICON LTP HAE: 249 M			
JESVA/1.80 NM TO RW36 (SEE FORM 8260-10)	RW36 (MAP) (FO)	003.00 / 1.80					

1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)							
2. HOLD S OCEWA, RT, 002.99 INBOUND, 3000 FT. IN LIEU OF PT (IAF)							
3. FAC: <u>003.00</u> FAF: <u>IJEYU</u> DIST FAF TO MAP: <u>4.91</u> THLD: <u>4.91</u>							
4. MIN. ALT: OCEWA 3000, IJEYU 2500, JESVA/1.80 NM TO RW36 1500							
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> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u>							
7. GS ANGLE: <u> </u> TCH: 34:1 IS NOT CLEAR							
8. MSA FROM: RW36 3500							

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT												ALTERNATE: N A		STANDARD @	
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LP MDA	1260	1	355	1260	1	355	1260	1	355		NA				
LNAV MDA	1280	1	375	1280	1	375	1280	1	375		NA				
CIRCLING	1320	1	414	1440	1	534	1440	1 1/2	534		NA				

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: RWY 36 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MINNEAPOLIS ST PAUL
 (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 906 THRE: 905 AIRPORT NAME: FLYING CLOUD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 6 FEBRUARY 2014	SUP: AMDT: 1 DATED 06/09/2001
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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
RW36 (MAP)	2000 MSL	003.00	2000
2000 MSL	OCEWA (FO)		3000

NOTES, (CONT.):

INTL/WOLD-CHAMBERLAIN ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET AND INCREASE LP AND LNAV CAT C VISIBILITY 1/8 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WULEP ON V456 SOUTHWEST BOUND AND ON V26 WESTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PRAGS ON V505 SOUTHBOUND.

CHART PROFILE NOTE: DESENT ANGLE NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AHMIT ON V13-411 SOUTHBOUND.

CITY AND STATE
 MINNEAPOLIS, MN

ELEVATION: 906 THRE: 905
 AIRPORT NAME:
 FLYING CLOUD

FACILITY
 IDENTIFIER:
 RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 36, AMDT 2
 6 FEBRUARY 2014

SUP:
 AMDT: 1
 DATED: 06/09/2001

**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	KFCM
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	444918.2900N
LTP/FTP LONGITUDE	0932719.5200W
LTP/FTP ELLIPSOIDAL HEIGHT	+02490
FPAP LATITUDE	445046.8930N
FPAP LONGITUDE	0932706.4070W
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	1928
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER

8CA7C44D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02759
FPAP ORTHOMETRIC HEIGHT	+02759

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 906

THRE: 905

AIRPORT NAME:

FLYING CLOUD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, AMDT 2

6 FEBRUARY 2014

SUP:

AMDT:

1

DATED:

06/09/2001

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KFCMK3FR36	AAHMIT	010AHMITK3EA0E	A	IF					18000		A	JS
SUSAP	KFCMK3FR36	AAHMIT	020OCEWAK3EA0EE	B	010TF		30490155	+	03000			A	JS
SUSAP	KFCMK3FR36	AOCEWA	010OCEWAK3EA0EE	AR	HF		00300040	+	03000	18000		A	JS
SUSAP	KFCMK3FR36	APRAGS	010PRAGSK3EA0E	A	IF					18000		A	JS
SUSAP	KFCMK3FR36	APRAGS	020OCEWAK3EA0EE	B	010TF		00180081	+	03000			A	JS
SUSAP	KFCMK3FR36	AWULEP	010WULEPK3EA0E	A	IF					18000		A	JS
SUSAP	KFCMK3FR36	AWULEP	020OCEWAK3EA0EE	B	010TF		05670070	+	03000			A	JS
SUSAP	KFCMK3FR36	R	010OCEWAK3EA0E	I	IF			+	03000	18000		A	JS
SUSAP	KFCMK3FR36	R	020IJEYUK3EA1E	F	051TF		00300051	+	02500		RW36	K3PGA	JS
SUSAP	KFCMK3FR36	R	020IJEYUK3EA2WALP			N	ALNAV						JS
SUSAP	KFCMK3FR36	R	021JESVAK3EA0E	S	031TF		00300031	+	01500			A	JS
SUSAP	KFCMK3FR36	R	030RW36	K3PG0GY	M	031TF	00300018		01280		000	A	JS
SUSAP	KFCMK3FR36	R	040	0	M	CA	0030	+	02000			A	JS
SUSAP	KFCMK3FR36	R	050OCEWAK3EA0EY	L	DF			+	03000			A	JS
SUSAP	KFCMK3FR36	R	060OCEWAK3EA0EE	R	HM		00300040	+	03000			A	JS

[illegible][illegible]

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 906 THRE: 905 AIRPORT NAME: FLYING CLOUD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 2 6 FEBRUARY 2014	SUP:
				AMDT: 1
				DATED: 06/09/2001

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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	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1	2	3	4	5	6	7	8	9	0	1	2	3
	1	2	3	4	5	6	7	8	9	0	1	2	3
	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KFCMK3SRW36 K3PG						0	1	8	0	1	8	0	3
													M

CITY AND STATE
MINNEAPOLIS, MN

ELEVATION: 906 THRE: 905
AIRPORT NAME:
FLYING CLOUD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 36, AMDT 2
6 FEBRUARY 2014

SUP:
AMDT: 1
DATED: 06/09/2001

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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
	AHMIT	AHMIT	010	IAF	IF		FB					
	AHMIT	OCEWA	020		TF		FB	1.0	304.9(307.9T)	015.5	AA 03000	
	OCEWA	OCEWA	010	IAF	HF	R	FO		003.0(006.0T)	004.0	AA 03000	
	PRAGS	PRAGS	010	IAF	IF		FB					
	PRAGS	OCEWA	020		TF		FB	1.0	001.8(004.8T)	008.1	AA 03000	
	WULEP	WULEP	010	IAF	IF		FB					
	WULEP	OCEWA	020		TF		FB	1.0	056.7(059.7T)	007.0	AA 03000	
		OCEWA	010	FACF	IF		FB				AA 03000	
		IJEYU	020	FAF	TF		FB	0.5	003.0(006.0T)	005.1	AA 02500	
		JESVA	021	SDF	TF		FB	0.3	003.0(006.0T)	003.1	AA 01500	
		RW36	030	MAP	TF		FO	0.3	003.0(006.0T)	001.8	AT 01280	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		003.0(006.0T)		AA 02000	
	OCEWA	050		DF	L	FO				AA 03000	
	OCEWA	060		HM	R	FO		003.0(006.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AHMIT	N442952.59	W0931142.65	N4429.877	W09311.711
	IJEYU	N444425.11	W0932802.83	N4444.419	W09328.047
	JESVA	N444730.89	W0932735.40	N4447.515	W09327.590
	OCEWA	N443921.04	W0932847.61	N4439.351	W09328.794
	PRAGS	N443115.56	W0932945.22	N4431.259	W09329.754
	WULEP	N443549.25	W0933716.29	N4435.821	W09337.272
	RW36	N444918.29	W0932719.52	N4449.305	W09327.325

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	00905	00

CITY AND STATE
MINNEAPOLIS, MN

ELEVATION: **906** THRE: **905**
 AIRPORT NAME:
FLYING CLOUD

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 36, AMDT 2
6 FEBRUARY 2014

SUP:
 AMDT: **1**
 DATED: **06/09/2001**

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.
MINNEAPOLIS, MN	FLYING CLOUD	6 FEBRUARY 2014	6

TAKEOFF MINIMUMS:

RWY 10L, 10R, 18, 28L, 28R, 36 STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 10L, TREE, BUILDINGS, AND POLES BEGINNING 78 FT FROM DER, 346 FT LEFT OF CENTERLINE, UP TO 45 FT AGL/945 FT MSL. VEHICLE ON ROAD, SIGN, AND TREES BEGINNING 645 FT FROM DER, 442 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/937 FT MSL.

NOTE: RWY 10R, BUILDINGS BEGINNING 260 FT FROM DER, 321 FT RIGHT OF CENTERLINE, UP TO 40 AGL/943 FT MSL. TREES, POLES, AND GENERAL UTILITY BEGINNING 331 FT FROM DER, 106 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/939 FT MSL.

NOTE: RWY 28R, TREE, BUILDINGS, AND GENERAL UTILITY BEGINNING 105 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/938 FT MSL.

NOTE: RWY 18, BUILDINGS BEGINNING 212 FT FROM DER, 318 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/938 FT MSL. VEHICLE ON ROAD 262 FT FROM DER, 195 FT LEFT OF CENTERLINE, 15 FT AGL/ 918 FT MSL. TREES BEGINNING 401 FT FROM DER, 165 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/961 FT MSL.

NOTE: RWY 36, BUILDING 3 FT FROM DER, 478 FT LEFT OF CENTERLINE, 18 FT AGL/920 FT MSL. TREES BEGINNING 426 FT FROM DER, 323 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/951 FT MSL. TREES, BUILDINGS, POLES, AND WINDMILL BEGINNING 541 FT FROM DER, 302 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/960 FT MSL.

CONTROLLING OBSTACLES:

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.
MINNEAPOLIS, MN	FLYING CLOUD	6 FEBRUARY 2014	6

REMARKS:

FLIGHT INSPECTED BY:

Robert K. Bullard

11/13/13

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

GRACE NOWAK

AJV-353

06/05/2013

APPROVED BY:

LARRY STROUT

AJV-353

12-2-13

COORDINATED WITH:

ALPA, AOPA, NBAA, ZMP, MSP APP CON, AMGR.

CHANGES:

1. RWY 18/36: RWY 18 BEING EXTENDED AND RWY 36 SHORTENED. NO CHANGE IN DISTANCE; LENGTH STILL 2691 FT.
2. UPDATED ALL LOW, CLOSE-IN OBSTACLE NOTES.
3. REMOVED LOW, CLOSE-IN OBSTACLE NOTES FROM RWY 28L.

REASONS:

1. AIRPORT CONSTRUCTION PER FPT.
2. NEW OBSTACLE DATA.
3. RWY 28L CLEAR OF OBSTACLES.

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: LOTIH/0.49 DME					
FCM VOR/DME			RIPNY/6.00 DME			215.01 / 6.00			2700			CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 2700 DIRECT FCM VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 085.00 INBOUND. CHART FAS OBST: 1019 TREE 444908N/0932701W CHART CIRCLING ICON. RIPNY TO RW36: 3.02/30 FAC CROSSES RWY C/L EXTENDED 3802 FROM THLD.					
1. PT <u>R</u> SIDE OF COURSE <u>215.01</u> OUTBOUND <u>2700</u> FT WITHIN <u>10</u> MILES OF <u>RIPNY</u> (IAF) 2. _____ 3. FAC <u>035.01</u> FAF <u>RIPNY/6.00 DME</u> DIST FAF TO MAP _____ THLD <u>5.51</u> 4. MIN. ALT <u>RIPNY/6.00 DME 2700, NEADY/2.59 DME 1600</u> 8. MSA FROM: <u>FCM VOR/DME 360-090 3500, 090-360 2800</u>										MAG VAR: 1E EPOCH YEAR: 2010							
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: NA		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-36		1280	1	375	1280	1	375	1280	1	375							
CIRCLING		1320	1	414	1440	1	534	1440	1 1/2	534							
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MINNEAPOLIS ST PAUL INTL/WOLD CHAMBERLAIN ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET AND S-36 CAT C VISIBILITY 1/8 MILE. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: RWY 36 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT.																	
CITY AND STATE		ELEVATION: 906			THRE: 905			FACILITY IDENTIFIER:			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP			
MINNEAPOLIS, MN		AIRPORT NAME:			FLYING CLOUD			FCM			VOR/DME RWY 36, AMDT 1 6 FEBRUARY 2014			AMDT ORIG			
														DATE		02/11/2010	



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE										
														ADDITIONAL FLIGHT DATA:					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. _____ 3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____ 4. MIN. ALT _____ 8. MSA FROM: _____														MAG VAR: _____ EPOCH YEAR: _____					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A									
CATEGORY ==>		A			B			C			D			E					
	MDA	VIS	HAT/HAA		MDA	VIS	HAT/HAA		MDA	VIS	HAT/HAA		MDA	VIS	HAT/HAA				
NOTES: PROCEDURE CANCELED EFFECTIVE <u>6 FEBRUARY 2014</u>																			
CITY AND STATE CHILLICOTHE, MO				ELEVATION: 783 TDZE: 783 AIRPORT NAME: CHILLICOTHE MUNI				FACILITY IDENTIFIER: CHT		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 14, AMDT 8, 07/02/2009					SUP NDB OR GPS RWY 14 AMDT 7A DATE 10/30/2003				

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW17 CLIMB TO 5800 THEN CLIMBING RIGHT TURN TO 10600 DIRECT SAZMI AND ON TRACK 010.38 TO HIA VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 190.52 INBOUND. CHART FAS OBST: 5299 TREE 451542N/1123230W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 1.15 MILES TO RW17* *LNAV ONLY. WAAS CHANNEL # 93927 REFERENCE PATH ID: W17A CHART CIRCLING ICON CHART ARRIVAL HOLDING AT JOXIT: HOLD N, RT, 186.00 INBOUND, 14000. LTP HAE: 1560.4 M								
JOXIT	OMEXE (FB)	265.40 / 35.40	12900									
OMEXE	SAZMI (FB)	264.81 / 7.00	10600									
HIA VOR/DME	SAZMI (FB)	190.52 / 20.81	9400									
SAZMI (IAF)	CUSIF (FB)	215.66 / 8.75	7500									
CUSIF (IF)	NACCI (FB)	180.59 / 6.00	6800									
NACCI (FAF)	RW17 (MAP) (FO)	165.59 / 5.04										
RW17 (MAP)	5800 MSL	165.59	5800									
(SEE FORM 8260-10)												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT CUSIF 3. FAC: <u>165.59</u> FAF: <u>NACCI</u> DIST FAF TO MAP: <u>5.04</u> THLD: <u>5.04</u> 4. MIN. ALT: CUSIF 7500, NACCI 6800 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>6800</u> GS ALT AT: <u>NACCI 6800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>39.0</u> 34:1 IS CLEAR 8. MSA FROM: RW17 12400				MAG VAR: 13E EPOCH YEAR: 2010								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		STANDARD @						
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	5407	7/8	250	5407	7/8	250	5407	7/8	250	5407	7/8	250
LNAV/VNAV DA	5480	1 1/8	323	5480	1 1/8	323	5480	1 1/8	323	5480	1 1/8	323
LNAV MDA	5560	1	403	5560	1	403	5560	1 1/8	403	5560	1 1/8	403
CIRCLING	5760	1	515	5860	1	615	5980	2	735	6300	3	1055
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: CIRCLING TO RWY 4/22/35 NA AT NIGHT CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -27C (-16F) OR ABOVE 51C (124F) (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 5245 THRE: 5157		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
DILLON, MT		AIRPORT NAME: DILLON				RNAV (GPS) RWY 17, AMDT 1 6 FEBRUARY 2014			AMDT: ORIG			
									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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
5800 MSL	SAZMI (FB)		
SAZMI	HIA VOR/DME (FO)	010.38 / 20.81	10600

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HIA VOR/DME AIRWAY RADIALS 185 CW 275
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JOXIT ON V343 NORTHEAST BOUND.

CITY AND STATE
DILLON, MT

ELEVATION: 5245 THRE: 5157
AIRPORT NAME:
DILLON

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 17, AMDT 1
6 FEBRUARY 2014

SUP:	
AMDT:	ORIG
DATED:	06/27/2013

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

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

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KDLN
RUNWAY RW17
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W17A
LTP/FTP LATITUDE 451558.0755N
LTP/FTP LONGITUDE 1123308.9800W
LTP/FTP ELLIPSOIDAL HEIGHT +15604
FPAP LATITUDE 451429.0165N
FPAP LONGITUDE 1123305.8785W
THRESHOLD CROSSING HEIGHT (TCH) 00039.0
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0768
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

D5ACE0DE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K1
LTP ORTHOMETRIC HEIGHT +15718
FPAP ORTHOMETRIC HEIGHT +15718

CITY AND STATE

DILLON, MT

ELEVATION: 5245

THRE: 5157

AIRPORT NAME:

DILLON

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 17, AMDT 1

6 FEBRUARY 2014

SUP:

AMDT: ORIG

DATED: 06/27/2013

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KDLNK1FR17	AHIA	010HIA	K1D 0V	IF					18000		A JS	
SUSAP	KDLNK1FR17	AHIA	020SAZMIK1EA0E	A	020TF		19050208	+	09400			A JS	
SUSAP	KDLNK1FR17	AHIA	030CUSIFK1EA0EE	B	010TF		21570088	+	07500			A JS	
SUSAP	KDLNK1FR17	AJOXIT	010JOXITK1EA0E		IF					18000		A JS	
SUSAP	KDLNK1FR17	AJOXIT	020OMEXEK1EA0E		020TF		26540354	+	12900			A JS	
SUSAP	KDLNK1FR17	AJOXIT	030SAZMIK1EA0E	A	020TF		26480070	+	10600			A JS	
SUSAP	KDLNK1FR17	AJOXIT	040CUSIFK1EA0EE	B	010TF		21570088	+	07500			A JS	
SUSAP	KDLNK1FR17	R	010CUSIFK1EA0E	I	IF			+	07500	18000		A JS	
SUSAP	KDLNK1FR17	R	020NACCIK1EA1E	F	051TF		18060060	+	06800		RW17	K1PGA	JS
SUSAP	KDLNK1FR17	R	020NACCIK1EA2WALPV			ALNAV/VNAV	ALNAV					JS	
SUSAP	KDLNK1FR17	R	030RW17	K1PGOGY	M	031TF	16560050		05196	-300		A JS	
SUSAP	KDLNK1FR17	R	040	C	M	CA	1656	+	05800			A JS	
SUSAP	KDLNK1FR17	R	050SAZMIK1EA0E		R	DF						A JS	
SUSAP	KDLNK1FR17	R	060HIA	K1D 0VY		010TF	0104	+	10600			A JS	
SUSAP	KDLNK1FR17	R	070HIA	K1D 0VE	R	HM	19050070	+	10600			A JS	

[illegible]

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

CITY AND STATE DILLON, MT	ELEVATION: 5245	THRE: 5157	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	DILLON	RNAV	RNAV (GPS) RWY 17, AMDT 1	AMDT: ORIG
				6 FEBRUARY 2014	DATED: 06/27/2013

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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[illegible]

Page 5 of 6 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
	HIA	HIA	010		IF		FB					
	HIA	SAZMI	020	IAF	TF		FB	2.0	190.5(203.5T)	020.8	AA 09400	
	HIA	CUSIF	030		TF		FB	1.0	215.7(228.7T)	008.8	AA 07500	
	JOXIT	JOXIT	010		IF		FB					
	JOXIT	OMEXE	020		TF		FB	2.0	265.4(278.4T)	035.4	AA 12900	
	JOXIT	SAZMI	030	IAF	TF		FB	2.0	264.8(277.8T)	007.0	AA 10600	
	JOXIT	CUSIF	040		TF		FB	1.0	215.7(228.7T)	008.8	AA 07500	
		CUSIF	010	FACF	IF		FB				AA 07500	
		NACCI	020	FAF	TF		FB	0.5	180.6(193.6T)	006.0	AA 06800	
		RW17	030	MAP	TF		FO	0.3	165.6(178.6T)	005.0	AT 05196	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		165.6(178.6T)		AA 05800	
	SAZMI	050		DF	R	FB					
	HIA	060		TF		FO	1.0	010.4(023.4T)		AA 10600	
	HIA	070		HM	R	FO		190.5(203.5T)	007.0	AA 10600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIA	N455142.44	W1121010.59	N4551.707	W11210.177
	CUSIF	N452650.01	W1123119.54	N4526.834	W11231.326
	JOXIT	N452641.14	W1112218.66	N4526.686	W11122.311
	NACCI	N452100.14	W1123319.52	N4521.002	W11233.325
	OMEXE	N453140.58	W1121207.50	N4531.676	W11212.125
	SAZMI	N453237.22	W1122159.55	N4532.620	W11221.993
	RW17	N451558.08	W1123308.98	N4515.968	W11233.150

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW17	05157		39



CITY AND STATE DILLON, MT	ELEVATION: 5245	THRE: 5157	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 1 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: DILLON				AMDT: ORIG
					DATED: 06/27/2013

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

TYPE: RNAV OBSTACLE

DP ROUTE DESCRIPTION:

TAKE-OFF RWY 16: CLIMB HEADING 164.61 TO 5930, THEN CLIMBING RIGHT TURN DIRECT SPHNX, THEN ON TRACK 344.61 TO MDISN, THEN ON TRACK 293.01 TO HIA VOR/DME. THENCE...

TAKE-OFF RWY 34: CLIMB HEADING 344.61 TO 5930 THEN DIRECT SPHNX, THEN ON TRACK 344.61 TO MDISN, THEN ON TRACK 293.01 TO HIA VOR/DME. THENCE...

...ON ASSIGNED ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
-----------------	---------------------------	--------------------	---------------	--------	----------	-----	------	--------------------------

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS

RWY 16, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5930 THEN MINIMUM CLIMB OF 323 FT PER NM TO 8600.

RWY 34, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5930, THEN MINIMUM CLIMB OF 304 FT PER NM TO 8500.

NOTE: GPS REQUIRED.

NOTE: RNAV 1

TAKEOFF OBSTACLES NOTES:

RWY 16: FENCE 105 FT FROM DER, 291 FT LEFT OF CENTERLINE, 5 FT AGL/5358 FT MSL. MULTIPLE BUSHES BEGINNING 113 FT FROM DER, 493 FT LEFT OF CENTERLINE, UP TO 8 FT AGL/5358 FT MSL. BUILDING 731 FT FROM DER, 481 FT LEFT OF CENTERLINE, 18 FT AGL/5378 FT MSL. POLE 970 FT FROM DER, 671 FT LEFT OF CENTERLINE, 32 FT AGL/ 5395 FT MSL. MULTIPLE VEHICLES ON ROAD BEGINNING 1246 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, 18 FT AGL/5397 FT MSL.

RWY 34: MULTIPLE FENCE POLES BEGINNING 137 FT FROM DER, 378 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL 5510 FT MSL. MULTIPLE BUSHES BEGINNING 175 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/5562 FT MSL. MULTIPLE TREES BEGINNING 200 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/5634 FT MSL. MULTIPLE VEHICLES ON ROAD BEGINNING 5709 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 18 FT AGL/5597 FT MSL.

CONTROLLING OBSTACLES:

RWY 16: 7839 FT MSL AAO 45137.08N/1115116.13W.

RWY 34: 8039 FT MSL AAO 452635.56N/1113634.53W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 11329 MSL AAO 451639.00N/1112703.00W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KEKS 12E EPOCH YR: 2015

DME/DME ASSESSMENT NOT CONDUCTED.

QUALITY
1
CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

AIRPORTS SERVED:

ENNIS - BIG SKY

ENNIS, MT

COMMUNICATIONS:

ZLC ARTCC.

FIXES AND/OR NAVAIDS:**REMARKS:**

RWY 34 CONTROLLING OBSTACLE LOCATED 2733 FT INTO SECONDARY AREA WITH A PRIMARY EQUIVALENT OF 7812 FT.
VCOA NOT ESTABLISHED IN CONJUNCTION WITH RNAV ODP.
8 FT TREES USED WITHIN 20,000 OF ALL RUNWAYS PER FPT.
DEVELOPED USING RNP-1 CRITERIA.
25 DEGREE BANK ANGLE USED DUE TO TERRAIN.

FLIGHT INSPECTED BY:

Scott Thompson



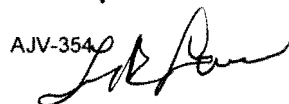
11/25/13

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH AIRPSACE
DOCKET 13-ANM-13

DEVELOPED BY:

VICTOR C BOONE


AJV-354

12/12/2012

APPROVED BY:

LARRY STROUT, MANAGER


AJV-354

DEC 10 2013

COORDINATED WITH:

APA, AOPA, NBAA, ZAN, APT MGR.

CHANGES:**REASONS:**

DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
ENNIS		ONE	ENNIS1.ENNIS				NONE		6 FEBRUARY 2014
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RWY 16 (AER)	451700.20N/1113858.59W	N	-	-	-	-			
5930 MSL		-	-	VA	176.61	-			RIGHT TURN, CG 500 FT PER NM TO 5930
SPHNX	451959.86N/1113913.68W	Y	FO	DF	-	-			CG 323 FT PER NM TO 8600
MDISN	453720.62N/1114041.61W	Y	FB	TF	356.61	17.38			
HIA VOR/DME	455142.44N/1121010.59W	Y	FB	TF	305.01	25.15			
RWY 34 (AER)	451555.16N/1113853.13W	N	-	-	-	-			
5930 MSL		-	-	VA	356.61	-			CG 500 FT PER NM TO 5930
SPHNX	451959.86N/1113913.68W	Y	FO	DF	-	-			CG 304 FT PER NM TO 8500
MDISN	453720.62N/1114041.61W	Y	FB	TF	356.61	17.38			
HIA VOR/DME	455142.44N/1121010.59W	Y	FB	TF	305.01	25.15			

QUALITY
3

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

ARINC PACKET - 424-18 - SID

[illegible][illegible][illegible][illegible][illegible]

QUALITY
1
CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW16		010		VA		FB		164.6 ()		AA 05930	
	RW16	SPHNX	020		DF	R	FO	1.0				
	RW16	MDISN	030		TF		FB	1.0				
	RW16	HIA	040		TF		FB	1.0				
	RW34		010		VA		FB		344.6 ()		AA 05930	
	RW34	SPHNX	020		DF		FO	1.0				
	RW34	MDISN	030		TF		FB	1.0				
	RW34	HIA	040		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIA	N455142.44	W1121010.59	N4551.707	W11210.177
	MDISN	N453720.62	W1114041.61	N4537.344	W11140.694
	SPHNX	N451959.86	W1113913.68	N4519.998	W11139.228
	RW16	N451700.20	W1113858.59	N4517.003	W11138.977
	RW34	N451555.16	W1113853.13	N4515.919	W11138.886

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW16	05423	30
	RW34	05349	21

1

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW16 CLIMB TO 5840 THEN CLIMBING RIGHT TURN TO 11000 DIRECT MDISN AND ON TRACK 293.01 TO HIA VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 191.52 INBOUND. CHART FAS OBST: 5671 TREE 451817N/1113817W DISTANCE TO THLD FROM 275 HATH: 0.77 NM. WAAS CHANNEL # 65735 REFERENCE PATH ID: W16A CHART CIRCLING ICON LTP HAE: 1642.8 M								
QUERY	NYMPF (FB)	334.05 / 20.00	13000									
NYMPF	MDISN (FO)	333.97 / 6.28	11000									
JFFRS (IAF)	MDISN (NOPT) (FB)	176.83 / 12.11	11000									
HIA VOR/DME (IAF)	MDISN (NOPT) (FB)	112.65 / 25.15	11000									
MDISN (IF/IAF)	RANBW (FB)	164.59 / 10.50	8600									
RANBW (FAF)	RW16 (MAP) (FO)	164.60 / 9.88										
RW16 (MAP)	5840 MSL	164.60	5840									
(SEE FORM 8260-10)												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)												
2. HOLD N MDISN, RT, 164.59 INBOUND, 11000 FT. IN LIEU OF PT (IAF)												
3. FAC: 164.60 FAF: RANBW DIST FAF TO MAP: 9.88 THLD: 9.88												
4. MIN. ALT: MDISN 11000, RANBW 8600												
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: 8600 GS ALT AT: RANBW 8600 OM: <u> </u> MM: <u> </u> IM: <u> </u>												
7. GS ANGLE: 3.00 TCH: 30.0 34:1 IS NOT CLEAR												
8. MSA FROM: RW16 12600												
				MAG VAR: 12E 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 *	5698	1	275	5698	1	275	5698	1	275	NA		
LPV DA	7168	3	1745	7168	3	1745	7168	3	1745	NA		
LNAV/VNAV DA	7268	3	1845	7268	3	1845	7268	3	1845	NA		
LNAV MDA	7280	1 1/4	1857	7280	1 1/2	1857	7280	3	1857	NA		
CIRCLING	7280	1 1/4	1858	7280	1 1/2	1858	7280	3	1858	NA		
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C (-14F) OR ABOVE 54C (130F). CHART NOTE: CIRCLING NA EAST OF RWY 16-34. (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 5423 THRE: 5423		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
ENNIS, MT		AIRPORT NAME: ENNIS - BIG SKY				RNAV (GPS) RWY 16, ORIG 6 FEBRUARY 2014			AMDT: NONE			
									DATED			

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

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
5840 MSL	MDISN (FB)		
MDISN	HIA VOR/DME (FO)	293.01 / 25.15	11000

NOTES, (CONT.):

CHART NOTE: *MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 311 FEET PER NM TO 8620.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HIA VOR/DME AIRWAY RADIALS 078 CW 186.
CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 165 KIAS UNTIL MDISN.
CHART NOTE: RWY 16 STRAIGHT-IN AND CIRCLING NA AT NIGHT.
CHART PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT JFFRS.
CHART PLANVIEW NOTE: PROCEDURE NA FOR AIRCRAFT AT QUERY ON V343 SOUTHBOUND.

QUALITY
CHECKED

CITY AND STATE
ENNIS, MT

ELEVATION: 5423 THRE: 5423
AIRPORT NAME:
ENNIS - BIG SKY

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 16, ORIG
6 FEBRUARY 2014

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 KEKS
RUNWAY RW16
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W16A
LTP/FTP LATITUDE 451700.1975N
LTP/FTP LONGITUDE 1113858.5850W
LTP/FTP ELLIPSOIDAL HEIGHT +16428
FPAP LATITUDE 451531.2675N
FPAP LONGITUDE 1113851.1265W
THRESHOLD CROSSING HEIGHT (TCH) 00030.0
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0736
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

8674DB40

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K1
LTP ORTHOMETRIC HEIGHT +16529
FPAP ORTHOMETRIC HEIGHT +16529

QUALITY
6
CHECKED

CITY AND STATE

ENNIS, MT

ELEVATION: 5423

THRE: 5423

AIRPORT NAME:

ENNIS - BIG SKY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, ORIG

6 FEBRUARY 2014

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][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KEKSK1FR16	AHIA	010HIA	K1D	OV	A	IF				18000		A	JS
SUSAP KEKSK1FR16	AHIA	020MDISNK1EA0EE	B	010TF			11270252	+	11000			A	JS
SUSAP KEKSK1FR16	AJFFRS	010JFFRSK1EA0E	A	IF						18000		A	JS
SUSAP KEKSK1FR16	AJFFRS	020MDISNK1EA0EE	B	010TF			17680121	+	11000			A	JS
SUSAP KEKSK1FR16	AQUERY	010QUERYK1EA0E		IF						18000		A	JS
SUSAP KEKSK1FR16	AQUERY	020NYMPFK1EA0E		020TF			33410200	+	13000			A	JS
SUSAP KEKSK1FR16	AQUERY	030MDISNK1EA0EY		020TF			33400063	+	11000			A	JS
SUSAP KEKSK1FR16	AQUERY	040MDISNK1EA0EE	AR	HF			16460070	+	11000			A	JS
SUSAP KEKSK1FR16	R	010MDISNK1EA0E	I	IF				+	11000	18000		A	JS
SUSAP KEKSK1FR16	R	020RANBWK1EA1E	F	051TF			16460105	+	08600		RW16	K1PGA	JS
SUSAP KEKSK1FR16	R	020RANBWK1EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KEKSK1FR16	R	030RW16	K1PGOGY	M	031TF		16460099		05453	-300		A	JS
SUSAP KEKSK1FR16	R	040		0	M	CA	1646	+	05840			A	JS
SUSAP KEKSK1FR16	R	050MDISNK1EA0E		R	DF							A	JS
SUSAP KEKSK1FR16	R	060HIA	K1D	OVY	010TF		2930	+	11000	165		A-JS	
SUSAP KEKSK1FR16	R	070HIA	K1D	OVE	R	HM	19150070	+	11000			A	JS

[illegible]

CITY AND STATE ENNIS, MT	ELEVATION: 5423 THRE: 5423	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: ENNIS - BIG SKY		RNAV (GPS) RWY 16, ORIG	AMDT: NONE
			6 FEBRUARY 2014	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]

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
	HIA	HIA	010	IAF	IF		FB					
	HIA	MDISN	020		TF		FB	1.0	112.7 (124.7T)	025.2	AA 11000	
	JFFRS	JFFRS	010	IAF	IF		FB					
	JFFRS	MDISN	020		TF		FB	1.0	176.8 (188.8T)	012.1	AA 11000	
	QUERY	QUERY	010		IF		FB					
	QUERY	NYMPF	020		TF		FB	2.0	334.1 (346.1T)	020.0	AA 13000	
	QUERY	MDISN	030		TF		FO	2.0	334.0 (346.0T)	006.3	AA 11000	
	QUERY	MDISN	040	IAF	HF	R	FO		164.6 (176.6T)	007.0	AA 11000	
		MDISN	010	FACF	IF		FB				AA 11000	
		RANBW	020	FAF	TF		FB	0.5	164.6 (176.6T)	010.5	AA 08600	
		RW16	030	MAP	TF		FO	0.3	164.6 (176.6T)	009.9	AT 05453	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		164.6 (176.6T)		AA 05840	
	MDISN	050		DF	R	FB					
	HIA	060		TF		FO	1.0	293.0 (305.0T)		AA 11000	AB 165
	HIA	070		HM	R	FO		191.5 (203.5T)	007.0	AA 11000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIA	N455142.44	W1121010.59	N4551.707	W11210.177
	JFFRS	N454918.46	W1113802.70	N4549.308	W11138.045
	MDISN	N453720.62	W1114041.61	N4537.344	W11140.694
	NYMPF	N453115.29	W1113831.52	N4531.255	W11138.525
	QUERY	N451151.07	W1113140.16	N4511.851	W11131.669
	RANBW	N452651.84	W1113948.37	N4526.864	W11139.806
	RW16	N451700.20	W1113858.59	N4517.003	W11138.977

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW16	05423	30

CITY AND STATE
ENNIS, MT

ELEVATION: **5423** THRE: **5423**
 AIRPORT NAME:
ENNIS - BIG SKY

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 16, ORIG
6 FEBRUARY 2014

SUP:
 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.
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.
ENNIS, MT	ENNIS - BIG SKY	6 FEBRUARY 2014	ORIG

TAKEOFF MINIMUMS:

TEXTUAL DEPARTURE PROCEDURES:

RWY 16, 34 - USE ENNIS (RNAV) DEPARTURE

TAKEOFF OBSTACLE NOTES:

CONTROLLING OBSTACLES:

QUALITY
1
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.
ENNIS, MT	ENNIS - BIG SKY	6 FEBRUARY 2014	ORIG

REMARKS:

FLIGHT INSPECTED BY:

Scott Thompson



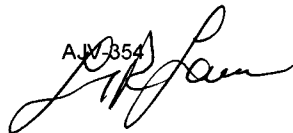
11/25/13

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH AIRSPACE
DOCKET 13-ANM-13

DEVELOPED BY:

VICTOR C. BOONE

AJV 354


07/15/2013

APPROVED BY:

LARRY STROUT, MANAGER

AJV 354


DEC 10 2013

COORDINATED WITH:

APA, AOPA, NBAA, ZLC, APT MGR.

CHANGES:

REASONS:

QUALITY
1
CHECKED

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: OVR 11.66 DME FIX CLIMB TO 1900 THEN CLIMBING LEFT TURN TO 3000 DIRECT OVR VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1400 THEN CLIMB TO 3000 DIRECT RIKKY LOM AND HOLD (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD E, RT, 284.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE RIKKY LOM, RT, 319.40 INBOUND. CHART FAS OBST: 1099 TREE 412059N/0955601W CHART IN PLANVIEW: RIKKY LOM. CHART: MAX 6000 AT CIVRA. CHART CIRCLING ICON											
OVR VORTAC	CIVRA/OVR 15.92 DME	312.47 / 15.92	3100												
OTSEE/OVR 22.14 DME/RADAR (IF)	CIVRA/OVR 15.92 DME	141.39 / 6.23 (I-OMA)	2400												
1. PT <u>R</u> SIDE OF COURSE <u>321.39</u> OUTBOUND <u>2900</u> FT WITHIN <u>10</u> MILES OF <u>CIVRA</u> (IAF) 2. _____ 3. FAC: <u>141.39</u> FAF: <u>CIVRA/OVR 15.92 DME</u> DIST FAF TO MAP: _____ THLD: <u>4.27</u> 4. MIN. ALT: <u>CIVRA/OVR 15.92 DME 2400, FILER/OVR 14.05 DME 1800*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: <u>830</u> 150 HAT: <u>1767</u> 100 HAT: <u>813</u> GS ANT: <u>1081</u> 6. MIN GS INCPT: <u>2400</u> GS ALT AT: <u>CIVRA 2400</u> OM: _____ MM: _____ IM: <u>1085</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>57.4</u> 8. MSA FROM: <u>OVR VORTAC 4100</u>				MAG VAR: 3E EPOCH YEAR: 2015											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: #		LOC: STANDARD @							
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 14R	1184	1800	200	1184	1800	200	1184	1800	200	1184	1800	200			
S-LOC 14R	1360	2400	376	1360	2400	376	1360	3500	376	1360	3500	376			
CIRCLING	1660	1	675	1680	1	695	2060	3	1075	2120	3	1135			
NOTES: CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 14R: CAT A, B, C, D, RA 99, RVR 1200, HATh 100, DA 1084 MSL. CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS- 14R: CAT IIIa CAT A,B,C,D, RVR 700. CAT IIIb CAT A,B,C,D, RVR 600. CAT IIIc NA. (SEE FORM 8260-10)															
CITY AND STATE				ELEVATION: 985 THRE: 984		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
OMAHA, NE				AIRPORT NAME:		I-OMA		ILS OR LOC/DME RWY 14R, AMDT 5 ILS RWY 14R (SA CAT I), ILS RWY 14R (CAT II) ILS RWY 14R (CAT III) 2/6/2014				AMDT: 4B			
				EPPLEY AIRFIELD								DATED 04/05/2012			

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

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NOTES, (CONT.):

CHART NOTE: DME FROM OVR VORTAC. SIMULTANEOUS RECEPTION OF I-OMA AND OVR DME REQUIRED.

CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.

*LOC ONLY

CHART NOTE: FOR INOPERATIVE ALSF, INCREASE S-LOC 14R CAT C/D VISIBILITY TO RVR 5500.

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

SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 14R: CAT A, B, C, D, RA

154, RVR 1400, HATh 150, DA 1134 MSL.

CHART NOTE: DME OR RADAR REQUIRED.

QUALITY
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CHECKED

CITY AND STATE OMAHA, NE	ELEVATION: 985 THRE: 984 AIRPORT NAME: EPPLEY AIRFIELD	FACILITY IDENTIFIER: I-OMA	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 14R, AMDT 5 ILS RWY 14R (SA CAT I), ILS RWY 14R (CAT II), ILS RWY 14R (CAT III) 2/6/2014	SUP:
				AMDT: 4B
				DATED: 04/05/2012

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KOMAK3FI14R	AOVR	0100VR	K3D OV	IF						18000		0 NS	
SUSAP KOMAK3FI14R	AOVR	020CIVRAK3PC0E	TF						+ 03100			0 NS	
SUSAP KOMAK3FI14R	AOVR	030CIVRAK3PC0EE AL	PI OFF K3		3448015500640100D			+ 02900				0 NS	
SUSAP KOMAK3FI14R	I	010OTSEEK3PC0E I	IF IOMAK3		32140122		PI	J 029000240018000				0 NS	
SUSAP KOMAK3FI14R	I	020CIVRAK3PC0E F	CF IOMAK3		3214006014100062PI			H 0240002400		-3000VR	K3D	0 NS	
SUSAP KOMAK3FI14R	I	030RW14RK3PG0GY M	CF IOMAK3		3214001714100043PI			01042		-300		0 NS	
SUSAP KOMAK3FI14R	I	040	0 M	CA		1414		+ 01900				0 NS	
SUSAP KOMAK3FI14R	I	0500VR	K3D OVY	DF				+ 03000				0 NS	
SUSAP KOMAK3FI14R	I	0600VR	K3D OVE R	HM		2840T010		+ 03000				0 NS	

[illegible][illegible][illegible]

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

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
	OVR	OVR	010		IF		FB					
	OVR	CIVRA	020		TF		FB				AA 03100	
	OVR	CIVRA	030	IAF	PI	L	FB		006.4()	010.0	AA 02900	
		OTSEE	010	FACF	IF		FB				AA 02900 GI 02400	
		CIVRA	020	FAP	CF		FB		141.0()	006.2	GI 02400 GS 02400	
		RW14R	030	MAP	CF		FO		141.0()	004.3	AT 01042	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		141.4()		AA 01900	
	OVR	050		DF		FO				AA 03000	
	OVR	060		HM	R	FO		284.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OFF (DME)	N410702.04	W0955400.04	N4107.034	W09554.001
	OVR	N411001.80	W0954412.67	N4110.030	W09544.211
	CIVRA	N412217.98	W0955739.86	N4122.300	W09557.664
	OTSEE	N412722.00	W0960229.77	N4127.367	W09602.496
	RW14R	N411849.83	W0955421.91	N4118.831	W09554.365
	IOMA (LOC)	N411725.69	W0955302.00	N4117.428	W09553.033

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW14R	00984		57

QUALITY
CHECKED

CITY AND STATE

OMAHA, NE

ELEVATION: 985

THRE: 984

AIRPORT NAME:

EPPLEY AIRFIELD

FACILITY
IDENTIFIER:

I-OMA

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC/DME RWY 14R, AMDT 5

ILS RWY 14R (SA CAT I), ILS RWY 14R (CAT II)

ILS RWY 14R (CAT III) 2/6/2014

SUP:

AMDT:

4B

DATED: 04/05/2012

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 visibility 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 KOMAK3FL14R	AOVR	0100VR	K3D 0V	IF						18000		0 DS	
SUSAP KOMAK3FL14R	AOVR	020CIVRAK3PC0E	TF					+ 03100				0 DS	
SUSAP KOMAK3FL14R	AOVR	030CIVRAK3PC0EE AL	PI OFF K3		3448015500640100D			+ 02900				0 DS	
SUSAP KOMAK3FL14R	L	0100TSEEK3PC0E I	IF IOMAK3		32140122		PI	+ 02900		18000		0 DS	
SUSAP KOMAK3FL14R	L	020CIVRAK3PC0E F	CF IOMAK3		3214006014100062PI			+ 02400			OVR K3D	0 DS	
SUSAP KOMAK3FL14R	L	021FILERK3PC0E S	CF IOMAK3		3214004114100019PI			+ 01800			-300	0 DS	
SUSAP KOMAK3FL14R	L	030RW14RK3PG0GY M	CF IOMAK3		3214001714100024PI			01042			-300	0 DS	
SUSAP KOMAK3FL14R	L	040	0 M	CA		1414		+ 01900				0 DS	
SUSAP KOMAK3FL14R	L	0500VR	K3D 0VY	DF				+ 03000				0 DS	
SUSAP KOMAK3FL14R	L	0600VR	K3D 0VE R	HM		2840T010		+ 03000				0 DS	

[illegible][illegible][illegible]

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

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.

SUSAP KOMAK3SOVR K3D

0 18018004125

M

CITY AND STATE

OMAHA, NE

ELEVATION: 985

THRE: 984

AIRPORT NAME:

EPPLEY AIRFIELD

FACILITY
IDENTIFIER:

I-OMA

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC/DME RWY 14R, AMDT 5

ILS RWY 14R (SA CAT I), ILS RWY 14R (CAT II)

ILS RWY 14R (CAT III) 2/6/2014

SUP:

AMDT:

4B

DATED: 04/05/2012

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
	OVR	OVR	010		IF		FB					
	OVR	CIVRA	020		TF		FB				AA 03100	
	OVR	CIVRA	030	IAF	PI	L	FB		006.4 ()	010.0	AA 02900	
		OTSEE	010	FACF	IF		FB				AA 02900	
		CIVRA	020	FAF	CF		FB		141.0 ()	006.2	AA 02400	
		FILER	021	SDF	CF		FB		141.0 ()	001.9	AA 01800	
		RW14R	030	MAP	CF		FO		141.0 ()	002.4	AT 01042	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		141.4 ()		AA 01900	
	OVR	050		DF		FO				AA 03000	
	OVR	060		HM	R	FO		284.0 ()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OFF (DME)	N410702.04	W0955400.04	N4107.034	W09554.001
	OVR	N411001.80	W0954412.67	N4110.030	W09544.211
	CIVRA	N412217.98	W0955739.86	N4122.300	W09557.664
	FILER	N412046.95	W0955613.23	N4120.783	W09556.221
	OTSEE	N412722.00	W0960229.77	N4127.367	W09602.496
	RW14R	N411849.83	W0955421.91	N4118.831	W09554.365
	IOMA (LOC)	N411725.69	W0955302.00	N4117.428	W09553.033

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14R	00984	57

CITY AND STATE
OMAHA, NEELEVATION: 985 THRE: 984
AIRPORT NAME:
EPPLEY AIRFIELDFACILITY
IDENTIFIER:
I-OMAPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 14R, AMDT 5
ILS RWY 14R (SA CAT I), ILS RWY 14R (CAT II)
ILS RWY 14R (CAT III) 2/6/2014SUP:
AMDT: 4B
DATED: 04/05/2012

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
TASKY/I-PPY 12.99 DME (IF/IAF)	XIPKE/I-PPY 7.04 DME	175.21 / 5.95 (I-PPY)	2800	ILS: DA LOC: I-PPY 1.49 DME FIX CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 3000 DIRECT OVR VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 325 AND ON I-PPY N COURSE TO XIPKE/7.04 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 284.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N XIPKE/7.04 DME, LT, 175.21 INBOUND. CHART FAS OBST: 1064 TREE 411918N/0955327W CHART VDP AT 2.39 DME* DISTANCE VDP TO THLD 0.90 MILES. *LOC ONLY. CHART CIRCLING ICON MAG VAR: 5E EPOCH YEAR: 2000
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. PROFILE STARTS AT TASKY 3. FAC: 175.21 FAF: XIPKE/I-PPY 7.04 DME DIST FAF TO MAP: THLD: 5.55 4. MIN. ALT: TASKY 3000, XIPKE 2800, PINNO/I-PPY 3.00 DME 1500* 5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 995 6. MIN GS INCPT: 2800 GS ALT AT: XIPKE 2800 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 51.0 8. MSA FROM: OVR VORTAC 4100				

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD @				
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 18**	1181	2400	200	1181	2400	200	1181	2400	200	1181	2400	200			
S-LOC 18	1320	2400	339	1320	2400	339	1320	2600	339	1320	2600	339			
CIRCLING	1660	1	675	1680	1	695	2060	3	1075	2120	3	1135			

NOTES:
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: DME REQUIRED.
CHART PLANVIEW NOTE: RADAR REQUIRED.

CAT A 700-2, CAT B 700-2, CAT C 1100-3, CAT D 1200-3
@ CAT C 1100-3, CAT D 1200-3

CITY AND STATE OMAHA, NE	ELEVATION: 985 THRE: 981 AIRPORT NAME: EPPELY AIRFIELD	FACILITY IDENTIFIER: I-PPY	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 18, AMDT 9 6 FEBRUARY 2014	SUP: AMDT: 8A DATED 02/12/2009
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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CITY AND STATE

OMAHA, NE

ELEVATION: 985

THRE: 981

AIRPORT NAME:

EPPLEY AIRFIELD

FACILITY
IDENTIFIER:

I-PPY

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC/DME RWY 18, AMDT 9

6 FEBRUARY 2014

SUP:

AMDT: 8A

DATED: 02/12/2009

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 KOMAK3FI18	I	010	TASKYK3PC0E	D	IF	IPPYK3	35520130	PI	J	030000280018000		0	DS
SUSAP KOMAK3FI18	I	020	XIPKEK3PC0E	F	CF	IPPYK3	3552007017500060PI	H	0280002800	-300OVR	K3D	0	DS
SUSAP KOMAK3FI18	I	030	RW18 K3PG0GY	M	CF	IPPYK3	3552001517500056PI		01032	-300		0	DS
SUSAP KOMAK3FI18	I	040		0 M	CA		1752	+	01800			0	DS
SUSAP KOMAK3FI18	I	050	OVR	K3D	Ovy	DF		+	03000			0	DS
SUSAP KOMAK3FI18	I	060	OVR	K3D	Ove	R HM	2840T010	+	03000			0	DS

[illegible][illegible][illegible]

SUP:	
AMDT:	8A
DATED:	02/12/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		TASKY	010	FACF	IF		FB				AA 03000 GI 02800	
		XIPKE	020	FAF	CF		FB		175.0()	006.0	GI 02800 GS 02800	
		RW18	030	MAP	CF		FO		175.0()	005.6	AT 01032	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		175.2()		AA 01800	
	OVR	050		DF		FO				AA 03000	
	OVR	060		HM	R	FO		284.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OVR	N411001.80	W0954412.67	N4110.030	W09544.211
	IPPY (DME)	N411717.51	W0955346.08	N4117.292	W09553.768
	TASKY	N413017.04	W0955336.87	N4130.284	W09553.615
	XIPKE	N412419.90	W0955338.62	N4124.332	W09553.644
	RW18	N411846.68	W0955340.24	N4118.778	W09553.671
	IPPY (LOC)	N411717.51	W0955340.68	N4117.292	W09553.678

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW18	00981	51

CITY AND STATE

OMAHA, NE

ELEVATION: 985

THRE: 981

AIRPORT NAME:

EPPLEY AIRFIELD

FACILITY
IDENTIFIER:

I-PPY

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC/DME RWY 18, AMDT 9

6 FEBRUARY 2014

SUP:

AMDT:

8A

DATED: 02/12/2009

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 visibility 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 KOMAK3FL18	L	010	TASKYK3PCOE	I	IF	IPPYK3	35520130	PI	+	03000	18000		0 DS
SUSAP KOMAK3FL18	L	020	XIPKEK3PCOE	F	CF	IPPYK3	3552007017500060	PI	+	02800		OVR K3D	0 DS
SUSAP KOMAK3FL18	L	021	PINNOK3PCOE	S	CF	IPPYK3	3552003017500040	PI	+	01500	-301		0 DS
SUSAP KOMAK3FL18	L	030	RW18 K3PG0GY	M	CF	IPPYK3	3552001517500015	PI		01032	-301		0 DS
SUSAP KOMAK3FL18	L	040		0 M	CA		1752		+	01800			0 DS
SUSAP KOMAK3FL18	L	050	OVR	K3D OVV	DF				+	03000			0 DS
SUSAP KOMAK3FL18	L	060	OVR	K3D OVE	R	HM	2840T010		+	03000			0 DS

[illegible][illegible][illegible]

DATED: 02/12/2009

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
		TASKY	010	FACF	IF		FB				AA 03000	
		XIPKE	020	FAF	CF		FB		175.0()	006.0	AA 02800	
		PINNO	021	SDF	CF		FB		175.0()	004.0	AA 01500	
		RW18	030	MAP	CF		FO		175.0()	001.5	AT 01032	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		175.2()		AA 01800	
	OVR	050		DF		FO				AA 03000	
	OVR	060		HM	R	FO		284.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OVR	N411001.80	W0954412.67	N4110.030	W09544.211
	IPPY (DME)	N411717.51	W0955346.08	N4117.292	W09553.768
	PINNO	N412017.55	W0955339.80	N4120.293	W09553.663
	TASKY	N413017.04	W0955336.87	N4130.284	W09553.615
	XIPKE	N412419.90	W0955338.62	N4124.332	W09553.644
	RW18	N411846.69	W0955340.24	N4118.778	W09553.671
	IPPY (LOC)	N411717.51	W0955340.68	N4117.292	W09553.678

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW18	00981	51

CITY AND STATE
OMAHA, NE

ELEVATION: 985 THRE: 981
AIRPORT NAME:
EPPLEY AIRFIELD

FACILITY
IDENTIFIER:
I-PPY

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 18, AMDT 9
6 FEBRUARY 2014

SUP:
AMDT: 8A
DATED: 02/12/2009

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES								MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LNAV: VESYU CLIMBING LEFT TURN TO 4900 DIRECT PUCIV AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4900. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 284 TREE 451058N/1230931W							
UBG VOR/DME		PUCIV (FO)		209.21 / 26.90		4900									
TIYOT (IAF)		PUCIV (NOPT) (FB)		004.14 / 4.06		4900									
CRAAF (IAF)		PUCIV (NOPT) (FB)		327.67 / 18.09		4900									
PUCIV (IF/IAF)		RIGOE (FB)		037.98 / 5.00		3400									
RIGOE		JODVI (FB)		038.04 / 5.00		1900									
JODVI (FAF)		VESYU (MAP) (FO)		038.11 / 4.77											
VESYU (MAP)		563 MSL		038.11											
563 MSL		PUCIV (FO)				4900									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW PUCIV, LT, 037.98 INBOUND, 4900 FT. IN LIEU OF PT (IAF) 3. FAC: 038.12 FAF: JODVI _____ DIST FAF TO MAP: 4.77 THLD: 5.26 4. MIN. ALT: PUCIV 4900, RIGOE 3400, JODVI 1900 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: VESYU 4800								MAG VAR: 19E EPOCH YEAR: 1990							
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A				STANDARD @							
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	580	1	419	580	1	419	580	1 1/4	419	580	1 1/4	419			
CIRCLING	640	1	477	640	1	477	760	1 1/2	597	880	2 1/4	717			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AURORA STATE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND ALL VISIBILITY 1/4 MILE. CHART PROFILE NOTE: DESCENT ANGLE NA. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 163 TDZE: 161		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
MC MINNVILLE, OR		AIRPORT NAME: MC MINNVILLE MUNI				RNAV (GPS) RWY 4, ORIG-A				AMDT: ORIG					
						6 FEBRUARY 2014				DATED		09/25/2008			

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

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

NOTES, (CONT.):**CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.****CHART NOTE: RWY 4 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT.****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT UBG VOR/DME ON V495 NORTHBOUND.****CITY AND STATE****MC MINNVILLE, OR****ELEVATION: 163****TDZE: 161****AIRPORT NAME:****MC MINNVILLE MUNI****FACILITY
IDENTIFIER:****RNAV****PROCEDURE NO./AMDT NO./EFFECTIVE DATE:****RNAV (GPS) RWY 4, ORIG-A****6 FEBRUARY 2014****SUP:****AMDT: ORIG****DATED: 09/25/2008**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are 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 KMMVK1FR04	ACRAAF	010CRAAFK1EA0E	A	IF						18000		B JS	
SUSAP KMMVK1FR04	ACRAAF	020PUCIVK1EA0EE	B	010TF		32770181		+ 04900				B JS	
SUSAP KMMVK1FR04	ATYIOT	010TIYOTK1EA0E	A	IF						18000		B JS	
SUSAP KMMVK1FR04	ATYIOT	020PUCIVK1EA0EE	B	010TF		00410041		+ 04900				B JS	
SUSAP KMMVK1FR04	AUBG	010UBG K1D 0V		IF						18000		B JS	
SUSAP KMMVK1FR04	AUBG	020PUCIVK1EA0EY		020TF		20920269		+ 04900				B JS	
SUSAP KMMVK1FR04	AUBG	030PUCIVK1EA0EE	AL	HF		03800050		+ 04900				B JS	
SUSAP KMMVK1FR04	R	010PUCIVK1EA0E	I	IF				+ 04900		18000		B JS	
SUSAP KMMVK1FR04	R	011RIGOEK1EA0E	S	051TF		03800050		+ 03400				B JS	
SUSAP KMMVK1FR04	R	020JODVIK1EA1E	F	051TF		03800050		+ 01900			VESYU K1EAB	JS	
SUSAP KMMVK1FR04	R	020JODVIK1EA2WN			N	ALNAV						JS	
SUSAP KMMVK1FR04	R	030VESYUK1EA0EY	M	031TF		03810048		00580		000		B JS	
SUSAP KMMVK1FR04	R	040		0 M	CA	0381		+ 00563				B JS	
SUSAP KMMVK1FR04	R	050PUCIVK1EA0EY	L	DF				+ 04900				B JS	
SUSAP KMMVK1FR04	R	060PUCIVK1EA0EE	L	HM		03800050		+ 04900				B JS	

[illegible]

CITY AND STATE MC MINNVILLE, OR	ELEVATION: 163 AIRPORT NAME: MC MINNVILLE MUNI	TDZE: 161 FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG-A 6 FEBRUARY 2014	SUP:
				AMDT: ORIG
				DATED: 09/25/2008

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are 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]

100

CITY AND STATE MC MINNVILLE, OR	ELEVATION: 163 TDZE: 161 AIRPORT NAME: MC MINNVILLE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG-A 6 FEBRUARY 2014	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.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CRAAF	CRAAF	010	IAF	IF		FB					
	CRAAF	PUCIV	020		TF		FB	1.0	327.7 (346.7T)	018.1	AA 04900	
	TIYOT	TIYOT	010	IAF	IF		FB					
	TIYOT	PUCIV	020		TF		FB	1.0	004.1 (023.1T)	004.1	AA 04900	
	UBG	UBG	010		IF		FB					
	UBG	PUCIV	020		TF		FO	2.0	209.2 (228.2T)	026.9	AA 04900	
	UBG	PUCIV	030	IAF	HF	L	FO		038.0 (057.0T)	005.0	AA 04900	
		PUCIV	010	FACF	IF		FB				AA 04900	
		RIGOE	011	SDF	TF		FB	0.5	038.0 (057.0T)	005.0	AA 03400	
		JODVI	020	FAF	TF		FB	0.5	038.0 (057.0T)	005.0	AA 01900	
		VESYU	030	MAP	TF		FO	0.3	038.1 (057.1T)	004.8	AT 00580	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		038.1 (057.1T)		AA 00563	
	PUCIV	050		DF	L	FO				AA 04900	
	PUCIV	060		HM	L	FO		038.0 (057.0T)	005.0	AA 04900	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	UBG	N452111.62	W1225841.37	N4521.194	W12258.690
	CRAAF	N444537.17	W1232105.90	N4445.620	W12321.098
	JODVI	N450839.20	W1231508.14	N4508.653	W12315.136
	PUCIV	N450312.86	W1232658.90	N4503.214	W12326.982
	RIGOE	N450556.18	W1232103.80	N4505.936	W12321.063
	TIYOT	N445929.08	W1232913.81	N4459.485	W12329.230
	VESYU	N451114.27	W1230928.65	N4511.238	W12309.478
	RW04	N451130.32	W1230853.45	N4511.505	W12308.891

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00161	00

CITY AND STATE
MC MINNVILLE, OR

ELEVATION: **163** TDZE: **161**
 AIRPORT NAME:
MC MINNVILLE MUNI

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 4, ORIG-A
6 FEBRUARY 2014

SUP:
 AMDT: **ORIG**
 DATED: **09/25/2008**

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW12 CLIMB TO 4500 DIRECT UTMİY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 301.35 INBOUND. CHART FAS OBST: 2277 GRD 440323N/1013647W FAS OBST: 2419 TREE 440402N/1013709W 2633 AAO 440519.33N/1014226.23W DISTANCE TO THLD FROM 258 HATH: 0.68 NM. WAAS CHANNEL # 78434 REFERENCE PATH ID: W12A CHART CIRCLING ICON LTP HAE: 652 M								
CUSED (IF/IAF)	ZULOK (FB)	121.04 / 7.00	3800									
ZULOK (FAF)	IYBUC/2.60 NM TO RW12 (FB)	121.13 / 2.27	4500									
IYBUC/2.60 NM TO RW12	RW12 (MAP) (FO)	121.13 / 2.60										
RW12 (MAP)	2467 MSL	121.13										
2467 MSL	UTMIY (FO)											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW CUSED, RT, 121.04 INBOUND, 4500 FT. IN LIEU OF PT (IAF) 3. FAC: 121.13 FAF: ZULOK _____ DIST FAF TO MAP: 4.87 THLD: 4.87 4. MIN. ALT: CUSED 4500, ZULOK 3800, IYBUC/2.60 NM TO RW12 3060* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3800 GS ALT AT: ZULOK 3800 _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: _____				MAG VAR: 7E 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	2467	1	258	2467	1	258	2467	1	258	NA		
LNAV/VNAV DA	2742	1 7/8	533	2742	1 7/8	533	2742	1 7/8	533	NA		
LNAV MDA	2680	1	471	2680	1	471	2680	1 3/8	471	NA		
CIRCLING	2720	1	511	2760	1	551	2840	1 3/4	631	NA		
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSİ AND RNAV GLIDEPATH NOT COINCIDENT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PIERRE ALTIMETER SETTING AND INCREASE ALL DA 204 FT AND MDA 220 FT AND INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 5/8 MILE, (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 2209 THRE: 2209		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
PHILIP, SD		AIRPORT NAME: PHILIP				RNAV (GPS) RWY 12, ORIG 6 FEBRUARY 2014			AMDT: NONE			
									DATED			



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

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NOTES, (CONT.):

INCREASE LNAV CAT C VISIBILITY 1/2 MILE, AND INCREASE CIRCLING CAT C VISIBILITY 3/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED

CHART NOTE: PROCEDURE NA AT NIGHT

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 54C (130F)

CHART NOTE: BARO VNAV NA WHEN USING PIERRE ALTIMETER SETTING

*LNAV ONLY

TAA	FROM	TO	ALT
1.	031/30 CW 211/30 (NOPT)	031/15 CW 211/15	4800
2.	031/15 CW 211/15	CUSED (IF/IAF) (FB)	4500
3.	211/30 CW 031/30	211/15 CW 031/15	4800
4.	211/15 CW 031/15	CUSED (IF/IAF) (FO)	4500

CITY AND STATE

PHILIP, SD

ELEVATION: 2209

THRE: 2209

AIRPORT NAME:

PHILIP

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 12, ORIG

6 FEBRUARY 2014

SUP:

AMDT: NONE

DATED:



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 KPHP
RUNWAY RW12
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W12A
LTP/FTP LATITUDE 440304.6365N
LTP/FTP LONGITUDE 1013620.9325W
LTP/FTP ELLIPSOIDAL HEIGHT +06520
FPAP LATITUDE 440209.5345N
FPAP LONGITUDE 1013443.8530W
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 1536
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

29261B42

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3
LTP ORTHOMETRIC HEIGHT +06733
FPAP ORTHOMETRIC HEIGHT +06733

CITY AND STATE

PHILIP, SD

ELEVATION: 2209

THRE: 2209

AIRPORT NAME:

PHILIP

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 12, ORIG

6 FEBRUARY 2014

SUP:

AMDT: NONE

DATED:

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KPHPK3FR12	ACUSED	010CUSEDK3EA0EE	AR	HF			12100050	+	04500	18000		A	JS
SUSAP KPHPK3FR12	R	010CUSEDK3EA0E	I	IF				+	04500	18000		A	JS
SUSAP KPHPK3FR12	R	020ZULOKK3EA1E	F	051TF			12100070	+	03800			A	JS
SUSAP KPHPK3FR12	R	020ZULOKK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KPHPK3FR12	R	021IYBUCK3EA0E	S	031TF			12110023	V	0306003077	-300		A	JS
SUSAP KPHPK3FR12	R	030RW12 K3PGOGY	M	031TF			12110026		02249	-300		A	JS
SUSAP KPHPK3FR12	R	040	0	M	CA		1211	+	02467			A	JS
SUSAP KPHPK3FR12	R	050UTMIYK3EA0EY		DF				+	04500			A	JS
SUSAP KPHPK3FR12	R	060UTMIYK3EA0EE	R	HM			30140050	+	04500			A	JS

[illegible][illegible]

CITY AND STATE PHILIP, SD	ELEVATION: 2209	THRE: 2209	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	PHILIP	RNAV	RNAV (GPS) RWY 12, ORIG	AMDT: NONE
				6 FEBRUARY 2014	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
	CUSED	CUSED	010	IAF	HF	R	FO		121.0 (128.0T)	005.0	AA 04500	
		CUSED	010	FACF	IF		FB				AA 04500	
		ZULOK	020	FAF	TF		FB	0.5	121.0 (128.0T)	007.0	AA 03800	
		IYBUC	021	SDF	TF		FB	0.3	121.1 (128.1T)	002.3	AA 03060	GS 03077
		RW12	030	MAP	TF		FO	0.3	121.1 (128.1T)	002.6	AT 02249	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		121.1 (128.1T)		AA 02467	
	UTMIY	050		DF		FO				AA 04500	
	UTMIY	060		HM	R	FO		301.4 (308.4T)	005.0	AA 04500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CUSED	N441024.25	W1014918.71	N4410.404	W10149.312
	IYBUC	N440441.05	W1013911.02	N4404.684	W10139.184
	UTMIY	N435517.17	W1012240.28	N4355.286	W10122.671
	ZULOK	N440605.19	W1014139.67	N4406.087	W10141.661
	RW12	N440304.64	W1013620.93	N4403.077	W10136.349

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW12	02209	40

4
CHECK

CITY AND STATE PHILIP, SD	ELEVATION: 2209	THRE: 2209	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: PHILIP		RNAV	RNAV (GPS) RWY 12, ORIG	AMDT: NONE
				6 FEBRUARY 2014	DATED:

PAGE 1 OF 5 PAGES

RNAV - STANDARD

INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

ALL CATS VISIBILITY 1 MILE, INCREASE LNAV CAT C VISIBILITY 1/2 MILE, AND INCREASE CIRCLING CAT C VISIBILITY 3/4 MILE

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED

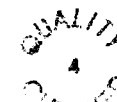
CHART NOTE: PROCEDURE NA AT NIGHT

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C (7F) OR ABOVE 54C (130F)

CHART NOTE: BARO VNAV NA WHEN USING PIERRE ALTIMETER SETTING

TAA

	FROM	TO	ALT
1.	211/30 CW 031/30 (NOPT)	211/15 CW 031/15	5100
2.	211/15 CW 031/15 (NOPT)	UTMIY (IF/IAF) (FB)	4500
3.	031/30 CW 211/30	UTMIY (IF/IAF) (FO)	4500



CITY AND STATE

PHILIP, SD

ELEVATION: 2209

THRE: 2194

AIRPORT NAME:

PHILIP

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, ORIG

6 FEBRUARY 2014

SUP:

AMDT: NONE

DATED:

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPHP
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	440240.2275N
LTP/FTP LONGITUDE	1013537.9235W
LTP/FTP ELLIPSOIDAL HEIGHT	+06474
FPAP LATITUDE	440335.3200N
FPAP LONGITUDE	1013715.0280W
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	1536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

7E1D3734

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+06687
FPAP ORTHOMETRIC HEIGHT	+06687

CITY AND STATE

PHILIP, SD

ELEVATION: 2209

THRE: 2194

AIRPORT NAME:

PHILIP

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

RNAV (GPS) RWY 30, ORIG

6 FEBRUARY 2014

SUP:

AMDT: NONE

DATED:

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KPHPK3FR30	AUTMIY	010UTMIYK3EA0EE	AR	HF			30140050	+	04500	18000		A	JS
SUSAP KPHPK3FR30	R	010UTMIYK3EA0E	I	IF				+	04500	18000		A	JS
SUSAP KPHPK3FR30	R	020HUVBIK3EA1E	F	051TF			30140070	+	03800			A	JS
SUSAP KPHPK3FR30	R	020HUVBIK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KPHPK3FR30	R	030RW30 K3PG0GY	M	031TF			30130049		02234	-300		A	JS
SUSAP KPHPK3FR30	R	040		0 M	CA		3013	+	02444			A	JS
SUSAP KPHPK3FR30	R	050CUSEDK3EA0EY		DF				+	04500			A	JS
SUSAP KPHPK3FR30	R	060CUSEDK3EA0EE	R	HM			12100050	+	04500			A	JS

[illegible][illegible]

QUALITY
4
CHECKED

CITY AND STATE PHILIP, SD	ELEVATION: 2209	THRE: 2194	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	PHILIP	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				6 FEBRUARY 2014	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
	UTMIY	UTMIY	010	IAF	HF	R	FO		301.4 (308.4T)	005.0	AA 04500	
		UTMIY	010	FACF	IF		FB				AA 04500	
		HUVBI	020	FAF	TF		FB	0.5	301.4 (308.4T)	007.0	AA 03800	
		RW30	030	MAP	TF		FO	0.3	301.3 (308.3T)	004.9	AT 02234	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.3 (308.3T)		AA 02444	
		CUSED	050		DF		FO				AA 04500	
		CUSED	060		HM	R	FO		121.0 (128.0T)	005.0	AA 04500	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		CUSED		N441024.25		W1014918.71		N4410.404		W10149.312		
		HUVBI		N435937.63		W1013016.73		N4359.627		W10130.279		
		UTMIY		N435517.17		W1012240.28		N4355.286		W10122.671		
		RW30		N440240.23		W1013537.92		N4402.671		W10135.632		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW30		02194		40						



CITY AND STATE PHILIP, SD	ELEVATION: 2209	THRE: 2194	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	PHILIP	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				6 FEBRUARY 2014	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.
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.
PHILIP, SD	PHILIP	6 FEBRUARY 2014	ORIG

TAKEOFF MINIMUMS:

RWY 05, 23: NA - ENVIROMENTAL
RWY 12, 30: STANDARD

TEXTUAL DEPARTURE PROCEDURES:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 12, TREE AND FENCE BEGINNING 2 FEET FROM DER, 334 FEET RIGHT OF CENTERLINE, UP TO 25 FEET AGL/2204 FEET MSL. SIGN, FENCE AND TREES BEGINNING 27 FEET FROM DER, 127 FEET LEFT OF CENTERLINE, UP TO 30 FEET AGL/2212 FEET MSL.
NOTE: RWY 30, FENCE BEGINNING 174 FEET FROM DER, 286 FEET LEFT OF CENTERLINE, UP TO 10 FEET AGL/2219 FEET MSL. FENCE AND VEHICLES ON ROAD BEGINNING 3 FEET FROM DER, 448 FEET RIGHT OF CENTERLINE, UP TO 15 FEET AGL / 2219 FEET MSL. POLES BEGINNING 950 FEET FROM DER, 308 FEET RIGHT OF CENTERLINE, UP TO 36 FEET AGL / 2250 FEET MSL. TERRAIN BEGINNING 2598 FEET FROM DER, 251 FEET RIGHT OF CENTERLINE, UP TO 2277 FEET MSL. ROAD BEGINNING 4019 FEET FROM DER, 1413 FEET RIGHT OF CENTERLINE, UP TO 15 FEET AGL/2322 FT MSL.

CONTROLLING OBSTACLES:



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

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

City, State	Airport	Effective Date	Amdt. No.
PHILIP, SD	PHILIP	6 FEBRUARY 2014	ORIG

REMARKS:

FLIGHT INSPECTED BY:

FOR Christopher Lenckus 10/10/13

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

FOR PATRICK MLQUEEN
(DAVID TEFFETELLER) AJV-351

06/10/2013

APPROVED BY:

FOR STEVEN SZUKALA AJV-351

12/12/2013

COORDINATED WITH:

ALPA, AOPA, NBAA, ZDV

CHANGES:

REASONS:

QUALITY
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: 2.56 MILES AFTER PHP VOR/DME OR AT MACUV/PHP 2.56 DME									
										CLIMB TO 4500 ON PHP VOR/DME R-090, THEN LEFT TURN DIRECT PHP VOR/DME AND HOLD.									
										ADDITIONAL FLIGHT DATA: HOLD W, LT, 089.32 INBOUND. FAS OBST: 2419 TREE 440402N/1013709W 2427 TREE 440318.00N/1013939.00W CHART CIRCLING ICON FAC CROSSES INTERSECTION OF RWY 12 AND RWY 05									
1. PT <u>R</u> SIDE OF COURSE <u>269.32</u> OUTBOUND <u>4500</u> FT WITHIN <u>10</u> MILES OF <u>PHP VOR/DME</u> (IAF)																			
2. _____																			
3. FAC <u>089.32</u> FAF <u>PHP VOR/DME</u> DIST FAF TO MAP <u>2.56</u> THLD _____																			
4. MIN. ALT <u>PHP VOR/DME 3700</u>																			
8. MSA FROM: <u>PHP VOR/DME 4500</u>										MAG VAR: 12E EPOCH YEAR: 1965									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD@							
CATEGORY =====>		A			B			C			D			E					
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA			
CIRCLING		2720	1	511	2760	1	551	2840	1 3/4	631		NA							
NOTES:																			
CHART NOTE: CIRCLING TO RWY 12-30 NA AT NIGHT.										@ NA WHEN LOCAL WEATHER NOT AVAILABLE.									
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PIERRE RGNL ALTIMETER SETTING AND INCREASE ALL MDA 220FT, AND INCREASE CIRCLING CAT C VISIBILITY 3/4 MILE.																			
CITY AND STATE PHILIP, SD		ELEVATION: 2209 AIRPORT NAME: PHILIP			TDZE:			FACILITY IDENTIFIER: PHP			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR-A, AMDT 12 6 FEBRUARY 2014					SUP VOR OR GPS-A AMDT 11A DATE 11/23/2006			

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM	TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW15 CLIMB TO 3800 DIRECT GIWFI AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 330.02 INBOUND. CHART FAS OBST: 1659 TREE 433719N/0964642W DISTANCE TO THLD FROM 410 HATH: 1.13 NM. CHART VDP AT 1.39 MILES TO RW15* *LNAV ONLY. WAAS CHANNEL # 90235 REFERENCE PATH ID: W15A CHART ASR CHART CIRCLING ICON LTP HAE: 409.4 M						
SECTO	CEPOL (FO)			258.79 / 15.97			3800								
FRYRE (IAF)	CEPOL (NOPT) (FB)			062.08 / 12.47			3800								
CEPOL (IF/IAF)	CIDAM (FB)			149.86 / 7.00			2900								
CIDAM (FAF)	WEDOR/2.20 NM TO RW15 (FB)			149.91 / 2.27											
WEDOR/2.20 NM TO RW15	RW15 (MAP) (FO)			149.91 / 2.20											
RW15 (MAP)	1830 MSL			149.91											
1830 MSL	GIWFI (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 CEPOL, RT, 149.86 INBOUND, 3800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>149.91</u> FAF: <u>CIDAM</u> DIST FAF TO MAP: <u>4.47</u> THLD: <u>4.47</u> 4. MIN. ALT: CEPOL 3800, CIDAM 2900, WEDOR/2.20 NM TO RW15 2160* 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>2900</u> GS ALT AT: <u>CIDAM 2900</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>48.4</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW15 4500</u>										MAG VAR: 5E 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	1839	1 3/8	410	1839	1 3/8	410	1839	1 3/8	410	1839	1 3/8	410			
LNAV/VNAV DA	1906	1 5/8	477	1906	1 5/8	477	1906	1 5/8	477	1906	1 5/8	477			
LNAV MDA	1920	1	491	1920	1	491	1920	1 3/8	491	1920	1 3/8	491			
CIRCLING	1980	1	550	1980	1	550	2200	2 1/4	770	2200	2 1/2	770			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). @ CAT C 800-2 1/4, CAT D 800-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. (SEE FORM 8260-10)															
CITY AND STATE				ELEVATION: 1430 THRE: 1429		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
SIOUX FALLS, SD				AIRPORT NAME:		RNAV		RNAV (GPS) RWY 15, AMDT 1				AMDT: ORIG-E			
				JOE FOSS FIELD				6 FEBRUARY 2014				DATED 09/19/2013			

 QUALITY
2
CHECKED

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

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NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SECTO ON V148 NORTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FRYRE ON V120 WEST BOUND.

QUALITY
2
CHECKED

CITY AND STATE SIOUX FALLS, SD	ELEVATION: 1430 THRE: 1429 AIRPORT NAME: JOE FOSS FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 6 FEBRUARY 2014	SUP:
				AMDT: ORIG-E
				DATED: 09/19/2013

**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	KFSD
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W15A
REFERENCE PATH IDENTIFIER (APPROACH ID)	433535.2585N
LTP/FTP LATITUDE	0964445.8315W
LTP/FTP LONGITUDE	+04094
LTP/FTP ELLIPSOIDAL HEIGHT	433414.5300N
FPAP LATITUDE	0964353.9200W
FPAP LONGITUDE	00048.4
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	0312
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

0506FCAE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04356
FPAP ORTHOMETRIC HEIGHT	+04356

CITY AND STATE

SIOUX FALLS, SD

ELEVATION: 1430

THRE: 1429

AIRPORT NAME:

JOE FOSS FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 15, AMDT 1

6 FEBRUARY 2014

SUP:

AMDT: ORIG-E

DATED: 09/19/2013

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3	
SUSAP	KFSDK3FR15	AFRYRE	010FRYREK3EA0E	A	IF					18000		A	JS	
SUSAP	KFSDK3FR15	AFRYRE	020CEPOLK3EA0EE	B	010TF		06210125	+	03800			A	JS	
SUSAP	KFSDK3FR15	ASECTO	010SECTOK3EA0E		IF					18000		A	JS	
SUSAP	KFSDK3FR15	ASECTO	020CEPOLK3EA0EY		020TF		25880160	+	03800			A	JS	
SUSAP	KFSDK3FR15	ASECTO	030CEPOLK3EA0EE	AR	HF		14990040	+	03800			A	JS	
SUSAP	KFSDK3FR15	R	010CEPOLK3EA0E	I	IF			+	03800	18000		A	JS	
SUSAP	KFSDK3FR15	R	020CIDAMK3EA1E	F	051TF		14990070	+	02900		RW15	K3PGA	JS	
SUSAP	KFSDK3FR15	R	020CIDAMK3EA2WALPV			ALNAV/VNAV	ALNAV						JS	
SUSAP	KFSDK3FR15	R	021WEDORK3EA0E	S	031TF		14990023	V	0216002178		-300		A	JS
SUSAP	KFSDK3FR15	R	030RW15	K3PGOGY	M	031TF	14990022		01478		-300		A	JS
SUSAP	KFSDK3FR15	R	040		0	M	CA		1499	+	01830		A	JS
SUSAP	KFSDK3FR15	R	050GIWFIK3EA0EY		DF				+	03800			A	JS
SUSAP	KFSDK3FR15	R	060GIWFIK3EA0EE		R	HM		33000040	+	03800			A	JS

[illegible][illegible]

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

SUP:	
AMDT:	ORIG-E
DATED:	09/19/2013

QUALITY
2
CHECKED

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.

MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KFSDK3SRW15 K3PG 0 18018004525 M

QUALITY
2
CHECKED

CITY AND STATE SIOUX FALLS, SD	ELEVATION: 1430	THRE: 1429	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: JOE FOSS FIELD	AMDT: ORIG-E			
	DATED: 09/19/2013				

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
	FRYRE	FRYRE	010	IAP	IF		FB					
	FRYRE	CEPOL	020		TF		FB	1.0	062.1(067.1T)	012.5	AA 03800	
	SECTO	SECTO	010		IF		FB					
	SECTO	CEPOL	020		TF		FO	2.0	258.8(263.8T)	016.0	AA 03800	
	SECTO	CEPOL	030	IAP	HF	R	FO		149.9(154.9T)	004.0	AA 03800	
		CEPOL	010	FACF	IF		FB				AA 03800	
		CIDAM	020	PAF	TF		FB	0.5	149.9(154.9T)	007.0	AA 02900	
		WEDOR	021	SDF	TF		FB	0.3	149.9(154.9T)	002.3	AA 02160	GS 02178
		RW15	030	MAP	TF		FO	0.3	149.9(154.9T)	002.2	AT 01478	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		149.9(154.9T)		AA 01830	
	GIWFI	050		DF		FO				AA 03800	
	GIWFI	060		HM	R	FO		330.0(335.0T)	004.0	AA 03800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CEPOL	N434558.36	W0965127.98	N4345.973	W09651.466
	CIDAM	N433938.02	W0964722.20	N4339.634	W09647.370
	FRYRE	N434107.97	W0970719.24	N4341.133	W09707.321
	GIWFI	N432417.88	W0963731.57	N4324.298	W09637.526
	SECTO	N434744.17	W0962933.77	N4347.736	W09629.563
	WEDOR	N433734.84	W0964602.81	N4337.581	W09646.047
	RW15	N433535.26	W0964445.83	N4335.588	W09644.764

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW15	01429		48

QUALITY
2
CHECKED

CITY AND STATE SIOUX FALLS, SD	ELEVATION: 1430 THRE: 1429	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: JOE FOSS FIELD	RNAV	RNAV (GPS) RWY 15, AMDT 1 6 FEBRUARY 2014	AMDT: ORIG-E
				DATED: 09/19/2013

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW33 CLIMB TO 3800 DIRECT CEPOL AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 149.86 INBOUND. CHART FAS OBST: 1665 BLDG 433310N/0964405W CHART ASR. DISTANCE TO THLD FROM 301 HATH: 0.80 NM. CHART VDP AT 1.42 MILES TO RW33* *LNAV ONLY. WAAS CHANNEL # 40135 REFERENCE PATH ID: W33A CHART CIRCLING ICON. LTP HAE: 407.3 M											
ANBUJ	GIWFI (FO)	236.04 / 11.27	3800												
CANTS (IAF)	GIWFI (NOPT) (FB)	018.17 / 6.93	3800												
GIWFI (IF/IAF)	YUCNU (FB)	330.02 / 6.01	3100												
YUCNU (FAF)	ZOTSU/2.00 NM TO RW33 (FB)	329.98 / 3.13													
ZOTSU/2.00 NM TO RW33	RW33 (MAP) (FO)	329.98 / 2.00													
RW33 (MAP)	1723 MSL	329.98													
1723 MSL	CEPOL (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 SE GIWFI, RT, 330.02 INBOUND, 3800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>329.98</u> FAF: <u>YUCNU</u> DIST FAF TO MAP: <u>5.13</u> THLD: <u>5.13</u> 4. MIN. ALT: <u>GIWFI 3800, YUCNU 3100, ZOTSU/2.00 NM TO RW33 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>3100</u> GS ALT AT: <u>YUCNU 3100</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>45.4</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW33 4500</u>				MAG VAR: 5E 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	1723	1	301	1723	1	301	1723	1	301	1723	1	301			
LNAV/VNAV DA	1977	1 7/8	555	1977	1 7/8	555	1977	1 7/8	555	1977	1 7/8	555			
LNAV MDA	1920	1	498	1920	1	498	1920	1 3/8	498	1920	1 3/8	498			
CIRCLING	1980	1	550	1980	1	550	2200	2 1/4	770	2200	2 1/2	770			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22C (-7F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CANTS ON V15 SOUTHBOUND. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 1430 THRE: 1422		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:			
SIOUX FALLS, SD		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 33, AMDT 1						AMDT: ORIG-D			
		JOE FOSS FIELD				6 FEBRUARY 2014						DATED 09/19/2013			

QUALITY
2
CHECKED

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

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

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ANBUJ ON V462 EASTBOUND.

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

QUALITY
2
CHECKED

CITY AND STATE

SIoux FALLS, SD

ELEVATION: 1430

THRE: 1422

AIRPORT NAME:

JOE FOSS FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 33, AMDT 1

6 FEBRUARY 2014

SUP:

AMDT: ORIG-D

DATED: 09/19/2013

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

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

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFSD
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	433423.6925N
LTP/FTP LONGITUDE	0964359.8030W
LTP/FTP ELLIPSOIDAL HEIGHT	+04073
FPAP LATITUDE	433544.4200N
FPAP LONGITUDE	0964451.7100W
THRESHOLD CROSSING HEIGHT (TCH)	00045.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

DA52313D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04335
FPAP ORTHOMETRIC HEIGHT	+04335

QUALITY
2
CHECKED

CITY AND STATE SIOUX FALLS, SD	ELEVATION: 1430 THRE: 1422 AIRPORT NAME: JOE FOSS FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1 6 FEBRUARY 2014	SUP:
				AMDT: ORIG-D
				DATED: 09/19/2013

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]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KFSDK3FR33	AANBUJ	010ANBUJK3EA0E	IF						18000		A JS	
SUSAP	KFSDK3FR33	AANBUJ	020GIWFIK3EA0EY	020TF			23600113	+ 03800				A JS	
SUSAP	KFSDK3FR33	AANBUJ	030GIWFIK3EA0EE	AR HF			33000040	+ 03800				A JS	
SUSAP	KFSDK3FR33	ACANTS	010CANTSK3EA0E	A IF						18000		A JS	
SUSAP	KFSDK3FR33	ACANTS	020GIWFIK3EA0EE	B 010TF			01820069	+ 03800				A JS	
SUSAP	KFSDK3FR33	R	010GIWFIK3EA0E	I IF				+ 03800		18000		A JS	
SUSAP	KFSDK3FR33	R	020YUCNUK3EA1E	F 051TF			33000060	+ 03100			RW33	K3PGA JS	
SUSAP	KFSDK3FR33	R	020YUCNUK3EA2WALPV		ALNAV/VNAV	ALNAV						JS	
SUSAP	KFSDK3FR33	R	021ZOTSUK3EA0E	S 031TF			33000031	V 0210002105		-300		A JS	
SUSAP	KFSDK3FR33	R	030RW33	K3PGOGY M 031TF			33000020			01468	-300	A JS	
SUSAP	KFSDK3FR33	R	040	0 M CA			3300	+ 01723				A JS	
SUSAP	KFSDK3FR33	R	050CEPOLK3EA0EY	DF				+ 03800				A JS	
SUSAP	KFSDK3FR33	R	060CEPOLK3EA0EE	R HM			14990040	+ 03800				A JS	

[illegible][illegible]

	1	2	3	4	5	6	7	8	9	0	1	2	3
--	---	---	---	---	---	---	---	---	---	---	---	---	---

SUP:	
AMDT:	ORIG-D
DATED:	09/19/2013

QUALITY
2
CHECKED

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.

MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KFSDK3SRW33 K3PG 0 18018004525 M

QUALITY
2
CHECKED

CITY AND STATE SIOUX FALLS, SD	ELEVATION: 1430	THRE: 1422	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: JOE FOSS FIELD	AMDT: ORIG-D			
	DATED: 09/19/2013				

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
ANBUJ		ANBUJ	010		IF		FB					
ANBUJ		GIWFI	020		TF		FO	2.0	236.0(241.0T)	011.3	AA 03800	
ANBUJ		GIWFI	030	IAF	HF	R	FO		330.0(335.0T)	004.0	AA 03800	
CANTS		CANTS	010	IAF	IF		FB					
CANTS		GIWFI	020		TF		FB	1.0	018.2(023.2T)	006.9	AA 03800	
		GIWFI	010	FACF	IF		FB				AA 03800	
		YUCNU	020	FAF	TF		FB	0.5	330.0(335.0T)	006.0	AA 03100	
		ZOTSU	021	SDF	TF		FB	0.3	330.0(335.0T)	003.1	AA 02100	GS 02105
		RW33	030	MAP	TF		FO	0.3	330.0(335.0T)	002.0	AT 01468	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		330.0(335.0T)		AA 01723	
	CEPOL	050		DF		FO				AA 03800	
	CEPOL	060		HM	R	FO		149.9(154.9T)	004.0	AA 03800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ANBUJ	N432946.03	W0962400.26	N4329.767	W09624.004
	CANTS	N431755.43	W0964116.06	N4317.924	W09641.268
	CEPOL	N434558.36	W0965127.98	N4345.973	W09651.466
	GIWFI	N432417.88	W0963731.57	N4324.298	W09637.526
	YUCNU	N432945.02	W0964100.92	N4329.750	W09641.015
	ZOTSU	N433234.96	W0964249.94	N4332.583	W09642.832
	RW33	N433423.69	W0964359.80	N4334.395	W09643.997

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW33	01422	45

QUALITY
2
CHECKED

CITY AND STATE
SIOUX FALLS, SD

ELEVATION: 1430 THRE: 1422
 AIRPORT NAME:
 JOE FOSS FIELD

FACILITY IDENTIFIER:
 RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
 RNAV (GPS) RWY 33, AMDT 1
 6 FEBRUARY 2014

SUP:
 AMDT: ORIG-D
 DATED: 09/19/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																			
TERMINAL ROUTES															MISSED APPROACH														
FROM					TO					COURSE AND DISTANCE					ALTITUDE					MAP: LOC: 4.90 MILES AFTER FLIKA INT/I-HEW 6.00 DME/RADAR OR AT I-HEW 1.10 DME FIX CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2000 ON HEADING 325 AND IAH VORTAC R-293 TO TNV VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 117.95 INBOUND. FAS OBST: 384 AAO 300754N/0953359W CHART 420 TOWER 301036N/0953346W CHART CIRCLING ICON.									
TUKII INT/I-HEW 14.29 DME/RADAR (IF)					FLIKA INT/I-HEW 6.00 DME/RADAR					167.76 / 8.29					1800														
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT TUKII 3. FAC <u>167.76</u> FAF <u>FLIKA INT/I-HEW 6.00 DME/RADAR</u> DIST FAF TO MAP <u>4.90</u> THLD <u>4.90</u> 4. MIN. ALT <u>TUKII 2000, FLIKA 1800</u> 8. MSA FROM: <u>IAH VORTAC 3100</u>															MAG VAR: 5E										EPOCH YEAR: 2000				
MINIMUMS																													
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT															ALTERNATE: N A					X									
CATEGORY =====>		A			B			C			D			E															
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA														
S-LOC 17R	640	1	488	640	1	488	640	1 3/8	488	640	1 3/8	488																	
CIRCLING	640	1	488	660	1	508	660	1 1/2	508	760	2	608																	
NOTES: CHART NOTE: CIRCLING TO RWY 35R NA AT NIGHT. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET; INCREASE S-LOC 17R CATS C/D VISIBILITY 1/8 MILE. (SEE FORM 8260-10)																													
CITY AND STATE					ELEVATION: 152 THRE: 152					FACILITY IDENTIFIER:					PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP									
HOUSTON, TX					AIRPORT NAME:					I-HEW					LOC RWY 17R, AMDT 3					AMDT 2									
					DAVID WAYNE HOOKS MEMORIAL										6 FEBRUARY 2014					DATE 08/25/2011									

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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

NOTES, (CONT.):

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

CHART PROFILE NOTE: DESCENT ANGLE NA.

CITY AND STATE

HOUSTON, TX

ELEVATION: 152

THRE: 152

AIRPORT NAME:

DAVID WAYNE HOOKS MEMORIAL

**FACILITY
IDENTIFIER:
I-HEW**

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

LOC RWY 17R, AMDT 3

6 FEBRUARY 2014

SUP:

AMDT: 2

DATED: 08/25/2011

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	KDWHK4FL17R	L	010TUKI1K4PC0E	I	IF	IHEWK4	34780143	PI	+	02000	18000	0	NS
SUSAP	KDWHK4FL17R	L	020FLIKAK4PC0E	F	CF	IHEWK4	3477006016800083PI	+	01800		IAH	K4D	0 NS
SUSAP	KDWHK4FL17R	L	030RW17RK4PG0GY	M	CF	IHEWK4	3478001116800049PI		00640		000		0 NS
SUSAP	KDWHK4FL17R	L	040	0	M	CA			1678	+	01200		0 NS
SUSAP	KDWHK4FL17R	L	050	0	R	VIY			3250				0 NS
SUSAP	KDWHK4FL17R	L	060TNV	K4D	OVY	CF	IAH K4	2933042129300260D	+	02000			0 NS
SUSAP	KDWHK4FL17R	L	070TNV	K4D	OVE	R	HM		1180T010	+	02000		0 NS

[illegible][illegible][illegible]

SUP:	
AMDT:	2
DATED:	08/25/2011

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
		TUKII	010	FACF	IF		FB				AA 02000	
		FLIKA	020	FAF	CF		FB		168.0()	008.3	AA 01800	
		RW17R	030	MAP	CF		FO		168.0()	004.9	AT 00640	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		167.8()		AA 01200	
		050		VI	R	FB		325.0()			
	TNV	060		CF		FO		293.0()	026.0	AA 02000	
	TNV	070		HM	R	FO		118.0()	T01.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	IAH	N295724.90	W0952044.59	N2957.415	W09520.743
	TNV	N301718.70	W0960329.66	N3017.312	W09603.494
	IHEW (DME)	N300309.00	W0953303.45	N3003.150	W09533.058
	FLIKA	N300906.66	W0953358.74	N3009.111	W09533.979
	TUKII	N301721.17	W0953511.11	N3017.353	W09535.185
	RW17R	N300414.04	W0953315.88	N3004.234	W09533.265
	IHEW (LOC)	N300308.69	W0953306.33	N3003.145	W09533.106

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17R	00152	52

CITY AND STATE
HOUSTON, TX

ELEVATION: 152 THRE: 152
AIRPORT NAME:
DAVID WAYNE HOOKS MEMORIAL

FACILITY
IDENTIFIER:
I-HEW

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
LOC RWY 17R, AMDT 3
6 FEBRUARY 2014

SUP:
AMDT: 2
DATED: 08/25/2011

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	LNAV: RW17R											
NEGIY (IAF)	OILER (FB)	077.70 / 5.00	2000	CLIMB TO 2000 DIRECT KOHRY AND HOLD.											
PIYSI (IAF)	OILER (FB)	257.80 / 5.00	2000												
OILER (IF)	HITPA (FB)	167.75 / 6.06	1800	ADDITIONAL FLIGHT DATA: HOLD S, LT, 347.77 INBOUND. FAS OBST: 384 AAO 300754N/0953359W HITPA TO RW17R: 3.04/52. CHART CIRCLING ICON.											
HITPA (FAF)	RW17R (MAP) (FO)	167.75 / 4.94													
RW17R (MAP)	552 MSL	167.75													
552 MSL	KOHRY (FO)		2000												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT OILER															
3. FAC: 167.75 FAF: HITPA DIST FAF TO MAP: 4.94 THLD: 4.94															
4. MIN. ALT: OILER 2000, HITPA 1800															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____															
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR															
8. MSA FROM: RW17R 3100				MAG VAR: 5E EPOCH YEAR: 2000											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT			ALTERNATE: N A		STANDARD @										
CATEGORY =====>	A		B		C	D	E								
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	640	1	488	640	1	488	640	1 3/8	488	640	1 3/8	488			
CIRCLING	640	1	488	660	1	508	660	1 1/2	508	760	2	608			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: CIRCLING TO RWY 35R NA AT NIGHT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GEORGE BUSH INTERCONTINENTAL/HOUSTON (SEE FORM 8260-10)															
CITY AND STATE HOUSTON, TX		ELEVATION: 152 THRE: 152 AIRPORT NAME: DAVID WAYNE HOOKS MEMORIAL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17R, AMDT 1B 6 FEBRUARY 2014				SUP: AMDT: 1A DATED 03/10/2011					

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

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NOTES, (CONT.):

ALTIMETER SETTING AND INCREASE ALL MDA 40 FT AND LNAV CAT C/D VISIBILITY 1/8 MILE.

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



CITY AND STATE HOUSTON, TX	ELEVATION: 152 THRE: 152 AIRPORT NAME: DAVID WAYNE HOOKS MEMORIAL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17R, AMDT 1B 6 FEBRUARY 2014	SUP:
				AMDT: 1A
				DATED: 03/10/2011

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	KDWHK4FR17R	ANEGII	010NEGIYK4EA0E	A	IF					18000		B	JS
SUSAP	KDWHK4FR17R	ANEGII	020OILERK4EA0EE	B	010TF		07770050	+	02000			B	JS
SUSAP	KDWHK4FR17R	APIYSI	010PIYSIK4EA0E	A	IF					18000		B	JS
SUSAP	KDWHK4FR17R	APIYSI	020OILERK4EA0EE	B	010TF		25780050	+	02000			B	JS
SUSAP	KDWHK4FR17R	R	010OILERK4EA0E	I	IF			+	02000	18000		B	JS
SUSAP	KDWHK4FR17R	R	020HITPAK4EA1E	F	051TF		16780061	+	01800		RW17R	K4PGB	JS
SUSAP	KDWHK4FR17R	R	020HITPAK4EA2WN			N	ALNAV						JS
SUSAP	KDWHK4FR17R	R	030RW17RK4PGOGY	M	031TF		16780049		00204	-304		B	JS
SUSAP	KDWHK4FR17R	R	040		0	M	CA					B	JS
SUSAP	KDWHK4FR17R	R	050KOHRYK4EA0EY		DF			+	02000			B	JS
SUSAP	KDWHK4FR17R	R	060KOHRYK4EA0EE	L	HM		34780040	+	02000			B	JS

[illegible][illegible]

QUALITY
6
CHECK

CITY AND STATE HOUSTON, TX	ELEVATION: 152	THRE: 152	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 17R, AMDT 1B 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: DAVID WAYNE HOOKS MEMORIAL				AMDT: 1A
					DATED: 03/10/2011

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
	NEGIY	NEGIY	010	IAF	IF		FB					
	NEGIY	OILER	020		TF		FB	1.0	077.7(082.7T)	005.0	AA 02000	
	PIYSI	PIYSI	010	IAF	IF		FB					
	PIYSI	OILER	020		TF		FB	1.0	257.8(262.8T)	005.0	AA 02000	
		OILER	010	FACF	IF		FB				AA 02000	
		HITPA	020	PAF	TF		FB	0.5	167.8(172.8T)	006.1	AA 01800	
		RW17R	030	MAP	TF		FO	0.3	167.8(172.8T)	004.9	AT 00204	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		167.8(172.8T)		AA 00552	
	KOHRY	050		DF		FO				AA 02000	
	KOHRY	060		HM	L	FO		347.8(352.8T)	004.0	AA 02000	

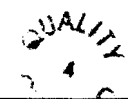
POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HITPA	N300908.78	W0953358.97	N3009.146	W09533.983
	KOHRY	N295218.77	W0953131.60	N2952.313	W09531.527
	NEGIY	N301432.26	W0954035.50	N3014.538	W09540.592
	OILER	N301510.33	W0953451.92	N3015.172	W09534.865
	PIYSI	N301548.15	W0952908.27	N3015.803	W09529.138
	RW17R	N300414.04	W0953315.88	N3004.234	W09533.265

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17R	00152	52

QUALITY
6
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 152	THRE: 152	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DAVID WAYNE HOOKS MEMORIAL		RNAV	RNAV (GPS) RWY 17R, AMDT 1B	AMDT: 1A
				6 FEBRUARY 2014	DATED: 03/10/2011

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW35L CLIMB TO 2000 DIRECT OILER AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 167.75 INBOUND. CHART FAS OBST: 304 TOWER 300125N/0953217W DISTANCE TO THLD FROM 299 HATH: 0.79 NM. WAAS CHANNEL # 45603 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 16.6 M											
JIDUK (IAF)	KOHRY (FB)	077.72 / 5.00	1800												
KOHRY (IF)	HIWDE (FB)	347.77 / 6.02	1800												
HIWDE (FAF)	RW35L (MAP) (FO)	347.77 / 4.98													
RW35L (MAP)	444 MSL	347.77													
444 MSL	OILER (FO)		2000												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT KOHRY 3. FAC: <u>347.77</u> FAF: <u>HIWDE</u> DIST FAF TO MAP: <u>4.98</u> THLD: <u>4.98</u> 4. MIN. ALT: KOHRY 1800, HIWDE 1800 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>HIWDE 1800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>45.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW35L 3100</u>				MAG VAR: 5E 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	444	1	299	444	1	299	444	1	299	444	1	299			
LNAV/VNAV DA	545	1 3/8	400	545	1 3/8	400	545	1 3/8	400	545	1 3/8	400			
LNAV MDA	560	1	415	560	1	415	560	1 1/8	415	560	1 1/8	415			
CIRCLING	640	1	488	660	1	508	660	1 1/2	508	760	2	608			
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -4C (25F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. (SEE FORM 8260-10)								@ NA WHEN LOCAL WEATHER NOT AVAILABLE.							
CITY AND STATE				ELEVATION: 152 THRE: 145		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
HOUSTON, TX				AIRPORT NAME:		RNAV		RNAV (GPS) RWY 35L, AMDT 1A				AMDT: 1			
				DAVID WAYNE HOOKS MEMORIAL				6 FEBRUARY 2014				DATED 05/10/2007			



RNAV - STANDARD

INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GEORGE BUSH INTERCONTINENTAL/HOUSTON

ALTIMETER SETTING AND INCREASE ALL DA 36 FT AND ALL MDA 40 FT, INCREASE LPV AND LNAV/VNAV

VISIBILITY ALL CATS 1/8 MILE, LNAV VISIBILITY CATS C/D 1/4 MILE.

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

CHART NOTE: RWY 35L STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 35R NA AT NIGHT.



CITY AND STATE HOUSTON, TX	ELEVATION: 152	THRE: 145	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35L, AMDT 1A 6 FEBRUARY 2014	SUP:
	AIRPORT NAME:				AMDT: 1
	DAVID WAYNE HOOKS MEMORIAL				DATED: 05/10/2007

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDWH
RUNWAY	RW35L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	300315.1015N
LTP/FTP LONGITUDE	0953307.2665W
LTP/FTP ELLIPSOIDAL HEIGHT	+00166
FPAP LATITUDE	300443.7000N
FPAP LONGITUDE	0953320.2100W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

F6C55CE8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00443
FPAP ORTHOMETRIC HEIGHT	+00443

QUALITY
CHECKED

CITY AND STATE

HOUSTON, TX

ELEVATION: 152

THRE: 145

AIRPORT NAME:

DAVID WAYNE HOOKS MEMORIAL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 35L, AMDT 1A

6 FEBRUARY 2014

SUP:

AMDT:

1

DATED:

05/10/2007

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	KDWHK4FR35L	AJIDUK	010JIDUKK4EA0E	A	IF					18000		A	JS
SUSAP	KDWHK4FR35L	AJIDUK	020KOHRYK4EA0EE	B	010TF		07770050	+	01800			A	JS
SUSAP	KDWHK4FR35L	R	010KOHRYK4EA0E	I	IF			+	01800	18000		A	JS
SUSAP	KDWHK4FR35L	R	020HIWDEK4EA1E	F	051TF		34780060	+	01800		RW35L	K4PGA	JS
SUSAP	KDWHK4FR35L	R	020HIWDEK4EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KDWHK4FR35L	R	030RW35LK4PG0GY	M	031TF		34780050		00190	-300		A	JS
SUSAP	KDWHK4FR35L	R	040	0	M	CA	3478	+	00444			A	JS
SUSAP	KDWHK4FR35L	R	050OILERK4EA0EY		DF			+	02000			A	JS
SUSAP	KDWHK4FR35L	R	060OILERK4EA0EE	R	HM		16780040	+	02000			A	JS

[illegible][illegible][illegible]

QUALITY
6
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 152 THRE: 145 AIRPORT NAME: DAVID WAYNE HOOKS MEMORIAL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 35L, AMDT 1A 6 FEBRUARY 2014	SUP:
				AMDT: 1
				DATED: 05/10/2007

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
	JIDUK	JIDUK	010	IAF	IF		FB					
	JIDUK	KOHRY	020		TF		FB	1.0	077.7(082.7T)	005.0	AA 01800	
		KOHRY	010	FACF	IF		FB				AA 01800	
		HIWDE	020	FAF	TF		FB	0.5	347.8(352.8T)	006.0	AA 01800	
		RW35L	030	MAP	TF		FO	0.3	347.8(352.8T)	005.0	AT 00190	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		347.8(352.8T)		AA 00444	
	OILER	050		DF		FO				AA 02000	
	OILER	060		HM	R	FO		167.8(172.8T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIWDE	N295817.86	W0953223.90	N2958.298	W09532.398
	JIDUK	N295140.80	W0953713.88	N2951.680	W09537.231
	KOHRY	N295218.77	W0953131.60	N2952.313	W09531.527
	OILER	N301510.33	W0953451.92	N3015.172	W09534.865
	RW35L	N300315.10	W0953307.27	N3003.252	W09533.121

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW35L	00145	45



CITY AND STATE HOUSTON, TX	ELEVATION: 152	THRE: 145	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DAVID WAYNE HOOKS MEMORIAL		RNAV	RNAV (GPS) RWY 35L, AMDT 1A	AMDT: 1
				6 FEBRUARY 2014	DATED: 05/10/2007

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW32 CLIMB TO 4000 DIRECT EVVIS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 142.19 INBOUND. CHART 608 TOWER 313600N/0971301W. CHART 1021 TOWER 313220N/0971058W DISTANCE TO THLD FROM 250 HATH: 0.60 NM. CHART VDP AT 0.90 MILES TO RW32* *LNAV ONLY. WAAS CHANNEL # 69420 REFERENCE PATH ID: W32A CHART: ASR CHART CIRCLING ICON LTP HAE: 128.8 M							
DRILL		PRKRR (FB)		189.93 / 28.75			3000									
PRKRR (IAF)		ILINI (FB)		263.08 / 8.00			3000									
BARES (IAF)		KOCYU (FB)		011.51 / 6.36			3600									
KOCYU		ILINI (FB)		011.52 / 8.00			3000									
SATTY (IAF)		ILINI (FB)		308.37 / 6.69			3000									
ILINI (IF)		SKOCH (FB)		322.30 / 6.70			2100									
SKOCH (FAF)		IWIFY/1.90 NM TO RW32 (FB)		322.27 / 2.90												
(SEE FORM 8260-10)																
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT ILINI 3. FAC: <u>322.27</u> FAF: <u>SKOCH</u> DIST FAF TO MAP: <u>4.80</u> THLD: <u>4.80</u> 4. MIN. ALT: <u>ILINI 3000, SKOCH 2100, IWIFY/1.90 NM TO RW32 1160*</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>SKOCH 2100</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>59.0</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW32 3600</u>										MAG VAR: 7E 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	762	3/4	250	762	3/4	250	762	3/4	250	762	3/4	250				
LNAV/VNAV DA	769	3/4	257	769	3/4	257	769	3/4	257	769	3/4	257				
LNAV MDA	860	1	348	860	1	348	860	1	348	860	1	348				
CIRCLING	940	1	424	980	1	464	1020	1 1/2	504	1160	2	644				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MCGREGOR EXECUTIVE ALTIMETER SETTING AND INCREASE ALL DA 31 FEET AND ALL MDA 40 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CATS C/D VISIBILITY 1/8 MILE AND CIRCLING CAT D VISIBILITY 1/4 MILE. (SEE FORM 8260-10)																
CITY AND STATE				ELEVATION: 516 THRE: 512			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
WACO, TX				AIRPORT NAME:					RNAV (GPS) RWY 32, ORIG-C				AMDT: ORIG-B			
				WACO RGNL					6 FEBRUARY 2014				DATED 10/17/2013			



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
IWIFY/1.90 NM TO RW32	RW32 (MAP) (FO)	322.27 / 1.90	
RW32 (MAP)	762 MSL	322.27	
762 MSL	EVVIS (FO)		4000

NOTES, (CONT.):

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13C (9F) OR ABOVE 54C (130F).

CHART NOTE: BARO-VNAV NA WHEN USING MCGREGOR EXECUTIVE ALTIMETER SETTING.

CHART NOTE: VDP NA WITH MCGREGOR EXECUTIVE ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRILL ON V15-54 NORTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SATTY ON V15 SOUTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BARES ON V548 SOUTHBOUND.



CITY AND STATE WACO, TX	ELEVATION: 516 THRE: 512	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-C 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: WACO RGNL			AMDT: ORIG-B
				DATED: 10/17/2013

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

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

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KACT
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	313618.1420N
LTP/FTP LONGITUDE	0971349.8780W
LTP/FTP ELLIPSOIDAL HEIGHT	+01288
FPAP LATITUDE	313734.8700N
FPAP LONGITUDE	0971443.2500W
THRESHOLD CROSSING HEIGHT (TCH)	00059.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

4DC6A60F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+01561
FPAP ORTHOMETRIC HEIGHT	+01561



CITY AND STATE WACO, TX	ELEVATION: 516 THRE: 512	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-C 6 FEBRUARY 2014	SUP:
	AIRPORT NAME: WACO RGNL			AMDT: ORIG-B
				DATED: 10/17/2013

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 PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAEENRT	BARES K40	C	L	N31124483W097121710				E0040	NAR		BARES		
SUSAEENRT	DRILL K40	C	L	N31535726W096474916				E0038	NAR		DRILL		
SUSAEENRT	EVVIS K40	W		N31452928W097201386				E0041	NAR		EVVIS		
SUSAEENRT	ILINI K40	W		N31262373W097065738				E0040	NAR		ILINI		
SUSAEENRT	IWIFY K40	W		N31343996W097124163				E0040	NAR		IWIFY		
SUSAEENRT	KOCYU K40	W		N31184763W097095564				E0040	NAR		KOCYU		
SUSAEENRT	PRKRR K40	W		N31262339W096573630				E0039	NAR		PRKRR		
SUSAEENRT	SATTY K40	C	L	N31213770W097012791				E0039	NAR		SATTY		
SUSAEENRT	SKOCH K40	W		N31320994W097105743				E0040	NAR		SKOCH		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KACTK4AACT	0	071YHN31364390W097134910E007000516					1800018000C	MNAR	WACO	RGNL		

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KACTK4FR32	ABARES	010BARESK4EA0E	A	IF					18000		A	JS
SUSAP	KACTK4FR32	ABARES	020KOCYUK4EA0E		010TF		01150064	+	03600			A	JS
SUSAP	KACTK4FR32	ABARES	030ILINIK4EA0EE	B	010TF		01150080	+	03000			A	JS
SUSAP	KACTK4FR32	ADRILL	010DRILLK4EA0E		IF					18000		A	JS
SUSAP	KACTK4FR32	ADRILL	020PRKRRK4EA0E	A	020TF		18990288	+	03000			A	JS
SUSAP	KACTK4FR32	ADRILL	030ILINIK4EA0EE	B	010TF		26310080	+	03000			A	JS
SUSAP	KACTK4FR32	ASATTY	010SATYK4EA0E	A	IF					18000		A	JS
SUSAP	KACTK4FR32	ASATTY	020ILINIK4EA0EE	B	010TF		30840067	+	03000			A	JS
SUSAP	KACTK4FR32	R	010ILINIK4EA0E	I	IF			+	03000	18000		A	JS
SUSAP	KACTK4FR32	R	020SKOCHK4EA1E	F	051TF		32230067	+	02100		RW32	K4PGA	JS
SUSAP	KACTK4FR32	R	020SKOCHK4EA2WALPV			ALNAV/VNAV							JS
SUSAP	KACTK4FR32	R	021IWIFYK4EA0E	S	031TF		32230029	V	0116001175	-300		A	JS
SUSAP	KACTK4FR32	R	030RW32	K4PGOGY	M	031TF	32230019		00571	-300		A	JS
SUSAP	KACTK4FR32	R	040		M	CA	3223	+	00762			A	JS
SUSAP	KACTK4FR32	R	050EVVISK4EA0EY		DF			+	04000			A	JS
SUSAP	KACTK4FR32	R	060EVVISK4EA0EE	R	HM		14220040	+	04000			A	JS

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KACTK4GRW32	0051033222	N31361814W097134988-0100							+0128800512000059150R			

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

CITY AND STATE WACO, TX	ELEVATION: 516	THRE: 512	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	WACO RGNL	RNAV	RNAV (GPS) RWY 32, ORIG-C 6 FEBRUARY 2014	AMDT: ORIG-B
					DATED: 10/17/2013

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]

SUP:	
AMDT:	ORIG-B
DATED:	10/17/2013

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
	BARES	BARES	010	IAF	IF		FB					
	BARES	KOCYU	020		TF		FB	1.0	011.5 (018.5T)	006.4	AA 03600	
	BARES	ILINI	030		TF		FB	1.0	011.5 (018.5T)	008.0	AA 03000	
	DRILL	DRILL	010		IF		FB					
	DRILL	PRKRR	020	IAF	TF		FB	2.0	189.9 (196.9T)	028.8	AA 03000	
	DRILL	ILINI	030		TF		FB	1.0	263.1 (270.1T)	008.0	AA 03000	
	SATTY	SATTY	010	IAF	IF		FB					
	SATTY	ILINI	020		TF		FB	1.0	308.4 (315.4T)	006.7	AA 03000	
		ILINI	010	FACF	IF		FB				AA 03000	
		SKOCH	020	FAF	TF		FB	0.5	322.3 (329.3T)	006.7	AA 02100	
		IWIFY	021	SDF	TF		FB	0.3	322.3 (329.3T)	002.9	AA 01160	GS 01175
		RW32	030	MAP	TF		FO	0.3	322.3 (329.3T)	001.9	AT 00571	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		322.3 (329.3T)		AA 00762	
	EVVIS	050		DF		FO				AA 04000	
	EVVIS	060		HM	R	FO		142.2 (149.2T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BARES	N311244.83	W0971217.10	N3112.747	W09712.285
	DRILL	N315357.26	W0964749.16	N3153.954	W09647.819
	EVVIS	N314529.28	W0972013.86	N3145.488	W09720.231
	ILINI	N312623.73	W0970657.38	N3126.396	W09706.956
	IWIFY	N313439.96	W0971241.63	N3134.666	W09712.694
	KOCYU	N311847.63	W0970955.64	N3118.794	W09709.927
	PRKRR	N312623.39	W0965736.30	N3126.390	W09657.605
	SATTY	N312137.70	W0970127.91	N3121.628	W09701.465
	SKOCH	N313209.94	W0971057.43	N3132.166	W09710.957
	RW32	N313618.14	W0971349.88	N3136.302	W09713.831

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW32	00512	59

CITY AND STATE WACO, TX	ELEVATION: 516	THRE: 512	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 32, ORIG-C	AMDT: ORIG-B
	WACO RGNL	RNAV	6 FEBRUARY 2014	DATED: 10/17/2013	

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION GPS STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE									
										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 6 MARCH 2014																	
CITY AND STATE CASA GRANDE, AZ				ELEVATION: 1464 THRE: 1464 AIRPORT NAME: CASA GRANDE MUNI				FACILITY IDENTIFIER: GPS		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: GPS RWY 23, ORIG-B, 03/10/2011				SUP AMDT ORIG-A DATE 04/10/1997			

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.
POLSON, MT	POLSON	6 MARCH 2014	ORIG-A

TAKEOFF MINIMUMS:

RWY 18, NA – OBSTACLES.

TEXTUAL DEPARTURE PROCEDURES:

RWY 36 – USE ANGIL DEPARTURE.

TAKEOFF OBSTACLE NOTES:

CONTROLLING OBSTACLES:

1
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.
POLSON, MT	POLSON	6 MARCH 2014	ORIG-A

FLIGHT INSPECTED BY:

FLIGHT INSPECTION NOT
REQUIRED,
LARRY H. STROUT, MGR

AJV-354

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

DANIEL D OLSON

AJV-354

10/18/2013

APPROVED BY:

LARRY H. STROUT

AJV-354

NOV 19 2013

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ARPT MGR, SALT LAKE CENTER APP/DEP CON, ZLC, ZOB

CHANGES:

1. REMOVED RWY 36 TAKEOFF MINIMUMS AND TAKEOFF OBSTACLE NOTES FROM TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES SECTION.

REASONS:

1. ALL REQUIRED INFORMATION AVAILABLE ON ANGIL (ODP) DEPARTURE CHART.

QUICK
1
CHECKED

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [30937](#); Amdt. No. [3572](#)]

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 [DECEMBER 20, 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
2/6/2014	WA	Tacoma	Tacoma Narrows	3/0075	11/05/13	ILS RWY 17, Amdt 8A
2/6/2014	WA	Tacoma	Tacoma Narrows	3/0076	11/04/13	RNAV (GPS) RWY 17, Orig
2/6/2014	AK	Soldotna	Soldotna	3/0685	12/16/13	NDB RWY 25, Amdt 3A
2/6/2014	AK	Soldotna	Soldotna	3/0694	12/16/13	NDB RWY 7, Amdt 2B
2/6/2014	AK	Soldotna	Soldotna	3/0695	12/16/13	VOR/DME A, Amdt 7D
2/6/2014	AK	Soldotna	Soldotna	3/0697	12/16/13	RNAV (GPS) RWY 7, Orig-B
2/6/2014	WY	Gillette	Gillette-Campbell County	3/1371	11/04/13	Takeoff Minimums and (Obstacle) DP, Amdt 4A
2/6/2014	OR	Baker City	Baker City Muni	3/1923	12/12/13	VOR/DME RWY 13, Amdt 11C
2/6/2014	OR	Baker City	Baker City Muni	3/1925	12/12/13	RNAV (GPS) RWY 13, Amdt 1A
2/6/2014	NC	Charlotte	Charlotte/Douglas Intl	3/2244	12/12/13	ILS OR LOC RWY 36R, ILS RWY 36R (CAT II & III), Amdt 11A
2/6/2014	WA	Seattle	Seattle-Tacoma Intl	3/3025	12/11/13	RNAV (GPS) Y RWY 34C, Amdt 2
2/6/2014	AK	Yakutat	Yakutat	3/3345	12/13/13	RNAV (GPS) RWY 29, Amdt 4
2/6/2014	AK	Yakutat	Yakutat	3/3348	12/13/13	LOC/DME BC RWY 29, Amdt 7
2/6/2014	AK	Yakutat	Yakutat	3/3349	12/13/13	VOR/DME RWY 29, Amdt 4
2/6/2014	CA	San Andreas	Calaveras Co-Maury Rasmussen Field	3/3586	11/04/13	Takeoff Minimums and (Obstacle) DP, Orig-A
2/6/2014	GA	Thomaston	Thomaston-Upson County	3/3988	12/16/13	ILS OR LOC RWY 30, Amdt 2
2/6/2014	CA	Monterey	Monterey Rgnl	3/4047	12/16/13	RNAV (GPS) Y RWY 28L, Orig-A
2/6/2014	CA	Monterey	Monterey Rgnl	3/4050	12/16/13	LOC/DME RWY 28L, Amdt 3G
2/6/2014	CA	Visalia	Visalia Muni	3/4052	11/04/13	VOR RWY 12, Amdt 6
2/6/2014	CA	Visalia	Visalia Muni	3/4055	10/15/13	RNAV (GPS) RWY 12, Amdt 1
2/6/2014	CA	Burbank	Bob Hope	3/4078	12/13/13	VOR RWY 8, Amdt 11
2/6/2014	CA	Burbank	Bob Hope	3/4082	12/13/13	GPS A, Orig
2/6/2014	WA	Renton	Renton Muni	3/4269	10/15/13	NDB RWY 16, Amdt 7
2/6/2014	AK	Savoonga	Savoonga	3/4287	12/16/13	RNAV (GPS) RWY 23, Amdt 1B
2/6/2014	AK	Savoonga	Savoonga	3/4289	12/16/13	RNAV (GPS) RWY 5, Amdt 1A
2/6/2014	AK	Juneau	Juneau Intl	3/4315	12/13/13	LDA X RWY 8, Amdt 12
2/6/2014	CA	Stockton	Stockton Metropolitan	3/4773	10/15/13	VOR RWY 29R, Amdt 18C
2/6/2014	UT	Brigham City	Brigham City	3/4775	11/04/13	RNAV (GPS) RWY 35, Amdt 2
2/6/2014	OR	John Day	Grant Co Rgnl/Ogilvie Field	3/4783	12/13/13	RNAV (GPS) Y RWY 9, Orig-B

2/6/2014	OR	John Day	Grant Co Rgnl/Ogilvie Field	3/4784	12/13/13	RNAV (GPS) Z RWY 9, Orig-B
2/6/2014	AK	Klawock	Klawock	3/5260	11/04/13	NDB/DME RWY 2, Amdt 1
2/6/2014	MT	Baker	Baker Muni	3/5837	12/16/13	Takeoff Minimums and (Obstacle) DP, Orig
2/6/2014	WA	Pasco	Tri-Cities	3/6570	11/04/13	RNAV (RNP) Z RWY 30, Orig
2/6/2014	WA	Pasco	Tri-Cities	3/6571	10/16/13	RNAV (RNP) Z RWY 3L, Orig
2/6/2014	WA	Pasco	Tri-Cities	3/6573	11/01/13	RNAV (GPS) Y RWY 3L, Amdt 1A
2/6/2014	WA	Moses Lake	Grant Co Intl	3/7293	12/13/13	ILS OR LOC RWY 32R, Amdt 20B
2/6/2014	WY	Sheridan	Sheridan County	3/7385	12/16/13	VOR RWY 14, Amdt 1
2/6/2014	WY	Sheridan	Sheridan County	3/7386	12/16/13	RNAV (GPS) RWY 32, Orig
2/6/2014	WY	Sheridan	Sheridan County	3/7387	12/16/13	ILS OR LOC/DME RWY 32, Amdt 1
2/6/2014	WY	Sheridan	Sheridan County	3/7388	12/16/13	RNAV (GPS) RWY 14, Orig
2/6/2014	AK	Huslia	Huslia	3/7468	11/04/13	RNAV (GPS) RWY 3, Amdt 2A
2/6/2014	AK	Huslia	Huslia	3/7473	10/16/13	RNAV (GPS) RWY 21, Amdt 2
2/6/2014	AK	Huslia	Huslia	3/7474	10/15/13	VOR/DME RWY 3, Orig-A
2/6/2014	AK	Dillingham	Dillingham	3/8753	11/04/13	RNAV (GPS) RWY 19, Amdt 2A
2/6/2014	CA	Oakland	Metropolitan Oakland Intl	3/9118	12/16/13	RNAV (GPS) Y RWY 12, Amdt 2
2/6/2014	CA	Oakland	Metropolitan Oakland Intl	3/9122	12/16/13	RNAV (RNP) Z RWY 12, Amdt 1
2/6/2014	WA	Ellensburg	Bowers Field	3/9337	11/01/13	Takeoff Minimums and (Obstacle) DP, Amdt 2
2/6/2014	AK	Gustavus	Gustavus	3/9892	12/13/13	VOR/DME RWY 29, Amdt 2

AIRAC Date: 6 FEBRUARY 2014

FDC 3/0075 TIW IAP TACOMA NARROWS, TACOMA, WA. ILS RWY 17, AMDT 8A... CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. THIS IS ILS RWY 17, AMDT 8B. 1311151400-PERM

FDC 3/0076 TIW IAP TACOMA NARROWS, TACOMA, WA. RNAV (GPS) RWY 17, ORIG... ADD PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. THIS IS RNAV (GPS) RWY 17, ORIG A. 1311151400-PERM

FDC 3/0685 SXQ IAP SOLDOTNA, SOLDOTNA, AK NDB RWY 25 AMDT 3A... DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. THIS IS NDB RWY 25 AMDT 3B. 1310232000-PERM

FDC 3/0694 SXQ IAP SOLDOTNA, SOLDOTNA, AK NDB RWY 7 AMDT 2B... DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. THIS IS NDB RWY 7 AMDT 2C. 1310232000-PERM

FDC 3/0695 SXQ IAP SOLDOTNA, SOLDOTNA, AK VOR/DME A AMDT 7D DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. THIS IS VOR/DME A AMDT 7E 1310232000-PERM

FDC 3/0697 SXQ IAP SOLDOTNA, SOLDOTNA, AK RNAV (GPS) RWY 7 ORIG-B... DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 7 ORIG-C. 1310232000-PERM

FDC 3/1371 GCC ODP GILLETTE-CAMPBELL COUNTY, GILLETTE, WY. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 4A... TAKEOFF MINIMUMS: RWY 21, 800-3 OR STANDARD WITH MINIMUM CLIMB OF 425 FT PER NM TO 5400. NOTE: RWY 21, TRANSMISSION TOWERS RIGHT TO LEFT OF CENTERLINE 1.36 NM FROM DER, UP TO 59 FT AGL/4826 FT MSL. TEXTUAL DEPARTURE PROCEDURE: RWY 21, CLIMB HEADING 206 TO 5400 BEFORE PROCEEDING ON COURSE. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES , AMDT 4B. 1311191400-PERM

FDC 3/1923 BKE IAP BAKER CITY MUNI, BAKER CITY, OR. VOR/DME RWY 13, AMDT 11C... DELETE NOTE: RWY 13 STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 8/17/26/35 NA AT NIGHT. CHART NOTE: CIRCLING TO RWY 8/17/26/35 NA AT NIGHT. THIS IS VOR/DME RWY 13, AMDT 11D. 1311201500-PERM

FDC 3/1925 BKE IAP BAKER CITY MUNI, BAKER CITY, OR. RNAV (GPS) RWY 13, AMDT 1A... DELETE NOTE: RWY 13 STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 8/17/26/35 NA AT NIGHT. CHART NOTE: CIRCLING TO RWY 8/17/26/35 NA AT NIGHT. THIS IS RNAV (GPS) RWY 13, AMDT 1B. 1311201500-PERM

FDC 3/2244 CLT IAP CHARLOTTE/DOUGLAS INTL, CHARLOTTE, NC. ILS OR LOC RWY 36R, ILS RWY 36R (CAT II & III), AMDT 11A... S-LOC RWY 36R: MDA 1220/HAT 493 ALL CATS, VIS CAT C RVR 4000, CAT D RVR 5000. CHART VDP AT *2.83 DME; DISTANCE VDP TO THLD 1.32 NM. CHART IN PROFILE *LOC ONLY. THIS IS ILS OR LOC RWY 36R, ILS RWY 36R (CAT II & III), AMDT 11B. 1310281525-PERM

FDC 3/3025 SEA IAP SEATTLE-TACOMA INTL, SEATTLE, WA. RNAV (GPS) Y RWY 34C, AMDT 2... LNAV MDA 880/HAT 517 ALL CATS, VIS CAT C AND D RVR 5500. THIS IS RNAV (GPS) Y RWY 34C, AMDT 2A. 1310291800-PERM

FDC 3/3345 YAK IAP YAKUTAT, YAKUTAT, AK. RNAV (GPS) RWY 29, AMDT 4... DELETE NOTE: RWY 29 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 29, AMDT 4A. 1310301300-PERM

FDC 3/3348 YAK IAP YAKUTAT, YAKUTAT, AK. LOC/DME BC RWY 29, AMDT 7... DELETE NOTE: RWY 29 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS LOC/DME BC RWY 29, AMDT 7A. 1310301300-PERM

FDC 3/3349 YAK IAP YAKUTAT, YAKUTAT, AK. VOR/DME RWY 29, AMDT 4... DELETE NOTE: RWY 29 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS VOR/DME RWY 29, AMDT 4A. 1310301300-PERM

FDC 3/3586 CPU PART 1 OF 2 ODP CALAVERAS CO-MAURY RASMUSSEN FIELD, SAN ANDREAS, CA. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES ORIG-A... TAKEOFF MINIMUMS: RWY 13, 1800-5 OR STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 3700. ADD TAKEOFF OBSTACLE NOTES: NOTE: RWY 13, WINDSOCK 4 FT FROM DER, 129 FT RIGHT OF CENTERLINE, 14 FT AGL/1341 FT MSL. LIGHTS 4 FT FROM DER, 68 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/1330 FT MSL. BUSH 24 FT FROM DER, 140 FT RIGHT OF CENTERLINE, 3 FT AGL/1331 FT MSL. TREE 43 FT FROM DER, 287 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/ 1336 FT MSL. BUSH 26 FT FROM DER, 96 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/1329 FT MSL. END PART 1 OF 2 1311251300-PERM

FDC 3/3586 CPU PART 2 OF 2 ODP CALAVERAS CO-MAURY RASMUSSEN FIELD, RWY 31, TREE 19 FT FROM DER, 242 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/1335 FT MSL. TREES 220 FT FROM DER, 375 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/1345 FT MSL. POLE 667 FT FROM DER, 653 FT LEFT OF CENTERLINE, 23 FT AGL/1326 FT MSL. TREES 1010 FT FROM DER, 651 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/1351 FT MSL. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, ORIG-B. END PART 2 OF 2 1311251300-PERM

FDC 3/3988 OPN IAP THOMASTON-UPSON COUNTY, THOMASTON, GA. ILS OR LOC RWY 30, AMDT 2... CHART MM AT DISTANCE TO THLD 0.43 NM, GS ALT AT MM 985. THIS IS ILS OR LOC RWY 30, AMDT 2A. 1311261350-PERM

FDC 3/4047 MRY IAP MONTEREY RGNL, MONTEREY, CA. RNAV (GPS) Y RWY 28L, ORIG-A... DELETE NOTE: RWY 28L STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 5000 NOT AUTHORIZED. THIS IS RNAV (GPS) Y RWY 28L, ORIG-B. 1311262127-PERM

FDC 3/4050 MRY IAP MONTEREY RGNL, MONTEREY, CA. LOC/DME RWY 28L, AMDT 3G... DELETE NOTE: RWY 28L STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 5000 AUTHORIZED. THIS IS LOC/DME RWY 28L, AMDT 3H. 1311261800-PERM

FDC 3/4052 VIS IAP VISALIA MUNI, VISALIA, CA. VOR RWY 12, AMDT 6... DELETE NOTE: STRAIGHT-IN/CIRCLING RWY 12 PROCEDURE NA AT NIGHT. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS VOR RWY 12, AMDT 6A. 1311261830-PERM

FDC 3/4055 VIS IAP VISALIA MUNI, VISALIA, CA. RNAV (GPS) RWY 12, AMDT 1... LPV VIS 3/4 ALL CATS. DELETE NOTE: STRAIGHT-IN/CIRCLING RWY 12 PROCEDURE NA AT NIGHT. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 12, AMDT 1A. 1311261830-PERM

FDC 3/4078 BUR IAP BOB HOPE, BURBANK, CA. VOR RWY 8, AMDT 11... CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN AND CIRCLING TO RWY 8 NA AT NIGHT. CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 15/33 NA AT NIGHT. CHART NOTE: CIRCLING TO RWY 26 NA AT NIGHT. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NOT AUTHORIZED. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS VOR RWY 8, AMDT 11A. 1401061400-PERM

FDC 3/4082 BUR IAP BOB HOPE, BURBANK, CA. GPS A, ORIG... CHART NOTE: CIRCLING TO RWY 26 NA AT NIGHT. CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 8/15/33 NA AT NIGHT. THIS IS GPS A, ORIG-A. 1401061400-PERM

FDC 3/4269 RNT IAP RENTON MUNI, RENTON, WA. NDB RWY 16, AMDT 7... CHART NOTE: DUAL ADF RECEIVERS REQUIRED FOR MISSED APPROACH. DELETE TCM R-022 AT ZEBKU INT. THIS IS NDB RWY 16, AMDT 7A. 1311271500-PERM

FDC 3/4287 SVA IAP SAVOONGA, SAVOONGA, AK. RNAV (GPS) RWY 23, AMDT 1B... CIRCLING CAT D HAA 561. THIS IS RNAV (GPS) RWY 23, AMDT 1C. 1311271529-PERM

FDC 3/4289 SVA IAP SAVOONGA, SAVOONGA, AK. RNAV (GPS) RWY 5, AMDT 1A **FDC**... CIRCLING CAT D HAA 561. THIS IS RNAV (GPS) RWY 5, AMDT 1B. 1311271529-PERM

FDC 3/4315 JNU IAP JUNEAU INTL, JUNEAU, AK. LDA X RWY 8, AMDT 12... DELETE S-LDA 8 CAT D MINIMUMS. DELETE: NIGHT MINIMUMS S-LDA 8 CAT D MINIMUMS. DELETE NOTE: WHEN PAJN LEAD-IN LIGHTS ARE NOT VISIBLE AT THE MAP, EXECUTE MISSED APPROACH. CHART PLANVIEW NOTE: LOC OFFSET 14.06 DEGREES. THIS IS LDA X RWY 8, AMDT 12A. 1311271800-PERM

FDC 3/4773 SCK IAP STOCKTON METROPOLITAN, STOCKTON, CA. VOR RWY 29R, AMDT 18C... MSA FROM MANTECA (ECA) VOR/DME 340-070 4200, 070-160 3000, 160-250 5300, 250-340 3400. ADD CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MODESTO ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE CIRCLING CAT D VISIBILITY 1/2 MILE. THIS IS VOR RWY 29R, AMDT 18D. 1312021300-PERM

FDC 3/4775 BMC IAP BRIGHAM CITY, BRIGHAM CITY, UT. RNAV (GPS) RWY 35, AMDT 2... CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. 34:1 IS NOT CLEAR. THIS IS RNAV (GPS) RWY 35, AMDT 2A. 1312021300-PERM

FDC 3/4783 GCD IAP GRANT CO RGNL/OGILVIE FIELD, JOHN DAY, OR. RNAV (GPS) Y RWY 9, ORIG-B... DELETE NOTE: STRAIGHT-IN AND CIRCLING RWY 09 MINIMUMS NA AT NIGHT. THIS IS RNAV (GPS) Y RWY 9, ORIG-C. 1312021325-PERM

FDC 3/4784 GCD IAP GRANT CO RGNL/OGILVIE FIELD, JOHN DAY, OR. RNAV (GPS) Z RWY 9, ORIG-B... DELETE NOTE: PROCEDURE NA AT NIGHT. THIS IS RNAV (GPS) Z RWY 9, ORIG-C. 1312021325-PERM

FDC 3/5260 AKW FI/P IAP KLAWOCK, KLAWOCK, AK. NDB/DME RWY 2, AMDT 1... PROCEDURE TURN LEFT SIDE OF COURSE 223.21 OUTBOUND 3500 FEET WITHIN 10 MILES OF ZEVLI/6.80 DME (IAF). CHANGE NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. THIS IS NDB/DME RWY 2, AMDT 1A.

FDC 3/5837 BHK ODP BAKER MUNI, BAKER, MT. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, ORIG... CHANGE TAKEOFF MINIMUMS: RWY 13, NA - ENVIRONMENTAL. RWY 31, STANDARD. DELETE RWY 13 TAKEOFF OBSTACLE NOTES. CHANGE RWY 31 TAKEOFF OBSTACLE NOTES TO READ: FENCE AND VERTICAL STRUCTURE 168 FT FROM DER, 498 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/2974 FT MSL. WIND SOCK ON BLDG 1015 FT FROM DER, 727 FT LEFT OF CENTERLINE, 36 FT AGL/2998 FT MSL. ANT 3832 FT FROM DER, 136 FT LEFT OF CENTERLINE, 111 FT AGL/3073 FT MSL. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, ORIG-A. 1310111700-PERM

FDC 3/6570 PSC FI/P IAP TRI-CITIES, PASCO, WA. RNAV (RNP) Z RWY 30, ORIG... MISSED APPROACH: CLIMB TO 5200 ON TRACK 300 TO WEDAV AND LEFT TURN TO YOCUY AND ON TRACK 251 TO PAIDS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5200. THIS IS RNAV (RNP) Z RWY 30, ORIG-A.

FDC 3/6571 PSC FI/P IAP TRI-CITIES, PASCO, WA. RNAV (RNP) Z RWY 3L, ORIG... CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. THIS IS RNAV (RNP) Z RWY 3L, ORIG-A.

FDC 3/6573 PSC FI/P IAP TRI-CITIES, PASCO, WA. RNAV (GPS) Y RWY 3L, AMDT 1A... CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. THIS IS RNAV (GPS) Y RWY 3L, AMDT 1B.

FDC 3/7293 MWH IAP GRANT CO INTL, MOSES LAKE, WA ILS OR LOC RWY 32R AMDT 20B... DELETE NOTE: *1800 RVR AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA. DELETE (ASTERISK)FROM S-ILS 32R LINE OF MINIMUMS. THIS IS ILS OR LOC RWY 32R AMDT 20C 1310161700-PERM

FDC 3/7385 SHR IAP SHERIDAN COUNTY, SHERIDAN, WY. VOR RWY 14, AMDT 1... CHART NOTE: CIRCLING TO RWY 23 NA AT NIGHT. DELETE NOTE: MAXIMUM PROCEDURE TURN ENTRY ALTITUDE 10000. CHART MAXIMUM 10000 AT SHR VOR/DME. THIS IS VOR RWY 14, AMDT 1A. 1310162000-PERM

FDC 3/7386 SHR IAP SHERIDAN COUNTY, SHERIDAN, WY. RNAV (GPS) RWY 32, ORIG... CHART NOTE: CIRCLING TO RWY 23 NA AT NIGHT. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 5 AND 23 NA AT NIGHT. THIS IS RNAV (GPS) RWY 32, ORIG-A. 1310162000-PERM

FDC 3/7387 SHR IAP SHERIDAN COUNTY, SHERIDAN, WY. ILS OR LOC/DME RWY 32, AMDT 1... CHART NOTE: CIRCLING TO RWY 23 NA AT NIGHT. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 5 AND 23 NA AT NIGHT. CHART PROFILE NOTE: USE I-SHR DME WHEN ON THE LOCALIZER COURSE. THIS IS ILS OR LOC/DME RWY 32, AMDT 1A. 1310162000-PERM

FDC 3/7388 SHR IAP SHERIDAN COUNTY, SHERIDAN, WY. RNAV (GPS) RWY 14, ORIG... CHART NOTE: CIRCLING TO RWY 23 NA AT NIGHT. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 5 AND 23 NA AT NIGHT. THIS IS RNAV (GPS) RWY 14, ORIG-A. 1310162000-PERM

FDC 3/7468 HLA IAP HUSLIA, HUSLIA, AK. RNAV (GPS) RWY 3, AMDT 2A... DELETE NOTE: RWY 03 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. THIS IS RNAV (GPS) RWY 3, AMDT 2B. 1310170901-PERM

FDC 3/7473 HLA IAP HUSLIA, HUSLIA, AK. RNAV (GPS) RWY 21, AMDT 2... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. THIS IS RNAV (GPS) RWY 21, AMDT 2A. 1310170901-PERM

FDC 3/7474 HLA IAP HUSLIA, HUSLIA, AK. VOR/DME RWY 3, ORIG-A... DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE NOTE: RWY 3 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. THIS IS VOR/DME RWY 3, ORIG-B. 1310170901-PERM

FDC 3/8753 DLG IAP DILLINGHAM, DILLINGHAM, AK. RNAV (GPS) RWY 19 AMDT 2A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 1 NA AT NIGHT. THIS IS RNAV (GPS) RWY 19 AMDT 2B. 1310181900-PERM

FDC 3/9118 OAK IAP METROPOLITAN OAKLAND INTL, OAKLAND, CA. RNAV (GPS) Y RWY 12, AMDT 2... CHART PROFILE NOTE: *LNAV ONLY. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT D 1400-3. NOTE: ALTERNATE MINIMUMS: NA WHEN LOCAL WEATHER NOT AVAILABLE. THIS IS RNAV (GPS) Y RWY 12 AMDT 2A. 1310211700-PERM

FDC 3/9122 OAK IAP METROPOLITAN OAKLAND INTL, OAKLAND, CA. RNAV (RNP) Z RWY 12, AMDT 1... CHANGE RW12 TO HISIS DISTANCE FROM 4.36 TO 3.09. THIS IS RNAV (RNP) Z RWY 12 AMDT 1A. 1310211700-PERM

FDC 3/9337 ELN PART 1 OF 2 ODP BOWERS FIELD, ELLENSBURG, WA. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 2... ADD TAKEOFF OBSTACLES NOTES: NOTE: RWY 7, FENCE 1 FT FROM DER, 438 FT LEFT OF CENTERLINE, 17 FT AGL/1772 FT MSL. FENCE AND TREES 138 FT FROM DER, 207 FT LEFT OF CENTERLINE, UP TO 24 FT AGL/1779 FT MSL. FENCE 532 FT FROM DER, 41 FT LEFT OF CENTERLINE, 14 FT AGL/1769 FT MSL. TREES 1149 FT FROM DER, 270 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/1795 FT MSL. POLES 1853 FT FROM DER, 140 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/1805 FT MSL. RWY 11, TREE 1794 FT FROM DER, 676 FT LEFT OF CENTERLINE, 75 FT AGL/1822 FT MSL. RWY 25, FENCE 151 FT FROM DER, 293 FT RIGHT OF CENTERLINE, 5 FT AGL/1714 FT MSL. TREE 2060 FT FROM DER, 465 FT LEFT OF CENTERLINE, 61 FT AGL/1770 FT MSL. RWY 29, FENCE AND TREE 152 FT FROM DER, 283 FT LEFT OF CENTERLINE, UP TO 11 FT AGL/1774 FT MSL. TREES 144 FT FROM DER, 263 FT RIGHT OF CENTERLINE, UP TO 19 FT AGL/1782 FT MSL. TREE END PART 1 OF 2 1311141300-PERM

FDC 3/9337 ELN PART 2 OF 2 ODP BOWERS FIELD, ELLENSBURG, WA. 1974 FT FROM DER, 463 FT RIGHT OF CENTERLINE, 61 FT AGL/1824 FT MSL. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 2A. END PART 2 OF 2 1311141300-PERM

FDC 3/9892 GST IAP GUSTAVUS, GUSTAVUS, AK. VOR/DME RWY 29, AMDT 2... DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. THIS IS VOR/DME RWY 29, AMDT 2A. 1312120901-PERM