

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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

<u>AIRPORT ID</u> KATY	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> WATERTOWN	<u>STATE</u> SD		
<u>AIRPORT ELEVATION</u> 1749	<u>TDZE</u> 1749	<u>SUPERSEDED</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/21/2018	<u>MAG VAR</u> 6E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
AYUNE	IAF	JEBER	NOPT	TF	FB	1.00	028.55	20.44	3600
CALAG	IAF	JEBER	NOPT	TF	FB	1.00	119.39	14.79	3600
STUCK	IAF	JEBER	NOPT	TF	FB	1.00	208.61	22.22	3600
JEBER	IF/IAF	FENIN		TF	FB	1.00	118.37	6.34	3300
FENIN	FAF	RW12	MAP	TF	FO	0.30	118.46	4.66	
RW12	MAP	2021 MSL		CA			118.46		
2021 MSL		DELDE		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW12

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT DELDE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NW JEBER, LT, 118.37 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 118.46FAF: FENINDIST FAF TO MAP: 4.66DIST FAF TO THLD: 4.66

4. MIN ALT: JEBER 3600, FENIN 3300

5. DIST TO THLD FROM OM:MM:IM:150 HAT:272 HAT: 0.71GS ANT:

6. MIN GP INCPT: 3300GP ALT AT PFAF : FENIN 3300OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 47.8

8. MSA FROM: RW12 4600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 12 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 298.70 INBOUND.
CHART FAS OBST: 1832 TREE (46-033423) 445630N/0971330W.
CHART VDP AT 0.95 NM TO RW12.
WAAS CHANNEL # 53405
REFERENCE PATH ID: W12A
CHART CIRCLING ICON.
LTP HAE: 507.8 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	2021	7/8	272	2021	7/8	272	2021	7/8	272	2021	7/8	272			
LNAV/VNAV DA	2076	1	327	2076	1	327	2076	1	327	2076	1	327			
LNAV MDA	2100	1	351	2100	1	351	2100	1	351	2100	1	351			
CIRCLING	2260	1	511	2260	1	511	2500	2 1/4	751	2500	2 1/2	751			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM FOR ORIG-A INTO FORM - 8260.19I 8-3-4.C (3).
2. REMOVED FEEDER SEGMENT ATY VORTAC TO JEBER. - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
3. ADDED TERMINAL LEGS: FENIN TO RW12, CA LEG OF 2021, AND DF LEG 2021 MSL TO DELDE. - REQUIRED FOR RNAV PROCEDURES.
4. ADDED "MAX 6000" TO PROFILE LINE 2 -- UPDATED IAW 8260.19I, 8-6-7.B(2).
5. UPDATED PROFILE LINE 6 FROM "GS ALT AT: FENIN" TO "GP ALT AT PFAF: FENIN 3300" - 8260.19I 8-6-7.F.
6. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - IAW 8260.19I 8-6-7.G (3).
7. UPDATED PBN REQUIREMENTS NOTE FROM "RNP APCH" TO "RNP APCH - GPS" - 8260.19I 8-6-8.B (2).
8. UPDATED CHART NOTE: FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C (0°F) OR ABOVE 45°C (113°F)." TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C." - 8260.19I 8-6-9.R.
9. RELOCATED BACKUP ALTIMETER NOTES FROM THIS FORM TO THE 8260-9 FOR CONTINGENCY PURPOSES - 8260.19I, 8-6-9.F (3).
10. ADDED OBSTACLE ID TO FAS OBSTACLE 1832 TREE (46-033423) 445630N/0971330W IN ADDITIONAL FLIGHT DATA - IAW 8260.19I, 8-6-10.C.
11. ADDED "LTP HAE: 507.8 M" TO ADDITIONAL FLIGHT DATA. - 8260.19I 8-6-10 J.
12. REMOVED CHART NOTE "PROCEDURE NA FOR ARRIVALS AT ATY VORTAC VIA V398 SOUTHEAST BOUND." - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
13. DELETED * FROM CHART VDP AT 0.95 NM TO RW12* AND *LNAV ONLY FROM ADDITIONAL FLIGHT DATA. - NO LONGER REQUIRED.
14. CHANGED ALTERNATE MINIMUMS FROM "STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2." TO "STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE." - 8260.19I, 8-6-11.B (4).
15. UPDATED LPV VISIBILITY ALL CATS FROM "1" TO "7/8"; LNAV/VNAV VISIBILITY ALL CATS FROM "1 1/4" TO "1" - 8260.3E, TABLE 3-3-1.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, HON FSS, AMGR

Digitally signed by
ERIC N SUSKI
Aug 04, 2022

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE**DATE****DEVELOPED BY**

DONALD H. LANIER (COLE NESBITT)

OFFICE

AJV-A431

DATE

05/06/2022

Digitally signed by
ERIC N SUSKI
Aug 04, 2022

APPROVED BY

CASIMIR TABAKA

OFFICE

AJV-A430

DATE

TITLE
MANAGER

Digitally signed by
ERIC N SUSKI
Aug 04, 2022



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KATY
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	445519.9345N
LTP/FTP LONGITUDE	0971009.4955W
LTP/FTP ELLIPSOIDAL HEIGHT	+05078
FPAP LATITUDE	445429.4300N
FPAP LONGITUDE	0970826.2000W
THRESHOLD CROSSING HEIGHT (TCH)	00047.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	CA13D8E6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05329
FPAP ORTHOMETRIC HEIGHT	+05329

