

**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 30	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> WATERTOWN	<u>STATE</u> SD		
<u>AIRPORT ELEVATION</u> 1749	<u>TDZE</u> 1735	<u>SUPERSEDED</u> RNAV (GPS) RWY 30	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/23/2020	<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>
BUCCA	IAF	DELDE	NOPT	TF	FB	1.00	254.55	14.63	3600
OBITT	IAF	DELDE	NOPT	TF	FB	1.00	002.77	20.68	3600
DELDE	IF/IAF	HAVDI		TF	FB	1.00	298.70	6.17	3500
HAVDI	FAF	RW30	MAP	TF	FO	0.30	298.61	5.33	
RW30	MAP	1989 MSL		CA			298.61		
1989 MSL		JEBER		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT JEBER AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SE DELDE, RT, 298.70 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 298.61FAF: HAVDI

DIST FAF TO MAP: 5.33

DIST FAF TO THLD: 5.33

4. MIN ALT: DELDE 3600, HAVDI 3500

5. DIST TO THLD FROM OM:MM:IM:150 HAT:254 HAT: 0.67GS ANT:

6. MIN GP INCPT: 3500GP ALT AT PFAF : HAVDI 3500OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 45.0

8. MSA FROM: RW30 4600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD NW, LT, 118.37 INBOUND.
CHART FAS OBST: 2108 TOWER (46-000033) 445303N/0970232W.
CHART VDP AT 1.85 NM TO RW30.
WAAS CHANNEL # 50305
REFERENCE PATH ID: W30A
CHART CIRCLING ICON.
LTP HAE: 503 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	1989	3/4	254	1989	3/4	254	1989	3/4	254	1989	3/4	254			
LNAV/VNAV DA	2210	1 3/8	475	2210	1 3/8	475	2210	1 3/8	475	2210	1 3/8	475			
LNAV MDA	2360	1	625	2360	1	625	2360	1 3/4	625	2360	1 3/4	625			
CIRCLING	2360	1	611	2360	1	611	2500	2 1/4	751	2500	2 1/2	751			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT 1A INTO FORM - 8260.19I 8-3-4.C (3).
2. UPDATED TDZE FROM "1736" TO "1735" - UPDATED AIRNAV DATA.
3. REMOVED FEEDER SEGMENT ATY VORTAC TO DELDE. - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
4. ADDED MISSED APPROACH CA LEG. - 8260.58B 3-5-2.
5. ADDED "MAX 6000" TO PROFILE LINE 2 -- UPDATED IAW 8260.19I, 8-6-7.B(2).
6. UPDATED PROFILE LINE 6 FROM "GS ALT AT: HAVDI" TO "GP ALT AT PFAF: HAVDI 3500" - 8260.19I 8-6-7.F.
7. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - 8260.19I 8-6-7.G (3).
8. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH - GPS" TO PBN REQUIREMENTS NOTE - 8260.19I 8-6-8.B (2).
9. RELOCATED BACKUP ALTIMETER NOTES FROM THIS FORM TO THE 8260-9 FOR CONTINGENCY PURPOSES - 8260.19I, 8-6-9.F (3).
10. CHANGED CHART NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})." - 8260.19I 8-6-9.M (1).
11. 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.
12. REMOVED CHART NOTE "PROCEDURE NA FOR ARRIVALS AT ATY VORTAC ON V78 WESTBOUND." - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
13. UPDATED ADDITIONAL FLIGHT DATA: FROM "CHART FAS OBST: 2107 TOWER 445303N/0970232W, 1916 OL ON ELEVATOR 445329N/0970744W." TO "CHART FAS OBST: 2108 TOWER (46-000033) 445303N/0970232W." - 8260.19I 8-6-10.C.
14. ADDED "LTP HAE: 503 M" TO ADDITIONAL FLIGHT DATA. - 8260.19I 8-6-10 J.
15. CHANGED LPV DA FROM "1900" TO "1989"; LNAV/VNAV DA FROM "2208" TO "2210" LNAV/VNAV HAT FROM "472" TO "475"; AND LNAV HAT FROM "624" TO "625" - TDZE CHANGE.
16. UPDATED VISIBILITY LPV ALL CATS FROM "1" TO "3/4", LNAV/VNAV ALL CATS FROM "1 3/4" TP "1 3/8", LNAV CAT D FROM "2" TO "1 3/4". - UPDATED VISCHECK RESULTS.
17. UPDATED ADDITIONAL FLIGHT DATA FROM "CHART VDP AT 1.86 NM TO RW30" TO "CHART VDP AT 1.85 NM TO RW30" - NEW AIRNAV DATA UPDATED THRESHOLD ELEVATION.
18. NEW LNAV/VNAV CONTROLLER 1916 TOWER (46-000391) 445334.00N/0970744.00W - NO CHANGE IN MINIMA.

COORDINATED WITH:

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

FLIGHT CHECKED BY

EDWARD W MESA

OFFICE

FPO

DATE

10/13/2022

Digitally signed by

ERIC N SUSKI

Aug 04, 2022

DEVELOPED BY

DONALD H. LANIER (COLE NESBITT)

OFFICE

AJV-A431

DATE

04/29/2022

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	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	445441.3180N
LTP/FTP LONGITUDE	0970850.5260W
LTP/FTP ELLIPSOIDAL HEIGHT	+05030
FPAP LATITUDE	445531.8200N
FPAP LONGITUDE	0971033.8300W
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	0648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	69B58754

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05281
FPAP ORTHOMETRIC HEIGHT	+05281

