

**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 17	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> WATERTOWN	<u>STATE</u> SD		
<u>AIRPORT ELEVATION</u> 1749	<u>TDZE</u> 1741	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<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>
STUCK	IAF	BOBDE	NOPT	TF	FB	1.00	185.24	14.01	3600
CALAG	IAF	BOBDE	NOPT	TF	FB	1.00	094.20	22.27	3600
BOBDE	IF/IAF	RIKSE		TF	FB	1.00	174.25	6.19	3300
RIKSE	FAF	RW17	MAP	TF	FO	0.30	174.25	4.70	
RW17	MAP	2055 MSL		CA			174.25		
2055 MSL		APEDE		DF	FB	1.00			
APEDE		VESTY		TF	FO	1.00	153.93	9.63	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT APEDE AND ON TRACK 153.93 TO VESTY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N BOBDE, RT, 174.25 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 174.25FAF: RIKSEDIST FAF TO MAP: 4.70DIST FAF TO THLD: 4.70

4. MIN ALT: BOBDE 3600, RIKSE 3300

5. DIST TO THLD FROM OM:MM:IM:150 HAT:314 HAT: 0.84GS ANT:

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

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

8. MSA FROM: RW17 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 S, RT, 342.86 INBOUND.
CHART FAS OBST: 1859 TREE 445540N/0970937W.
CHART VDP AT 1.08 NM TO RW17.
WAAS CHANNEL # 82305
REFERENCE PATH ID: W17A
CHART CIRCLING ICON.
LTP HAE: 505.4 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	2055	7/8	314	2055	7/8	314	2055	7/8	314	2055	7/8	314			
LNAV/VNAV DA	2130	1 1/8	389	2130	1 1/8	389	2130	1 1/8	389	2130	1 1/8	389			
LNAV MDA	2120	1	379	2120	1	379	2120	1	379	2120	1	379			
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. UPDATED TDZE FROM "1740" TO "1741" - UPDATED AIRNAV DATA.
3. REMOVED FEEDER SEGMENT ATY VORTAC TO BOBDE. - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
4. ADDED TERMINAL LEGS: RIKSE TO RW17; CA LEG; 2054 MSL TO APEDE; AND APEDE TO VESTY. - 8260.58B 3-5-2.
5. UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 4000 DIRECT APEDE AND VIA 153.93 TRACK TO VESTY AND HOLD" TO "CLIMB TO 4000 DIRECT APEDE AND ON TRACK 153.93 TO VESTY AND HOLD." - 8260.19I 8-6-6.D. (11).
6. ADDED "MAX 6000" TO PROFILE LINE 2 - UPDATED IAW 8260.19I, 8-6-7.B(2).
7. UPDATED PROFILE LINE 6 FROM "GS ALT AT: RIKSE" TO "GP ALT AT PFAF: RIKSE 3300" - 8260.19I 8-6-7.F.
8. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - 8260.19I 8-6-7.G (3).
9. 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).
10. UPDATED PROFILE NOTE FROM "VGSI AND ILS 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. UPDATED LPV DA FROM 2054 TO 2055; LNAV/VNAV DA FROM 2129 TO 2130; LNAV HAT FROM 380 TO 379. - TDZE UPDATED IN AIRNAV FROM 1740 TO 1741.
13. ADDED "LTP HAE: 505.4 M" TO ADDITIONAL FLIGHT DATA. - 8260.19I 8-6-10 J.
14. BACK-UP ALTIMETER NOTES UPDATED AND MOVED TO 8260-9: PART C: REMARKS - IAW 8260.19I FOR CONTINGENCY PURPOSES.
15. DELETED PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT ATY VORTAC VIA V398 SOUTHEAST BOUND". - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
16. DELETED * FROM CHART VDP AT 1.08 NM TO RW17 AND AND REMOVED "*LNAV ONLY" FROM ADDITIONAL FLIGHT DATA. - NO LONGER REQUIRED.
17. UPDATED VISIBILITY LPV ALL CATS FROM "1" TO "7/8", LNAV/VNAV ALL CATS FROM "1 1/4" TP "1", LNAV CAT D 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**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**

Digitally signed by

ERIC N SUSKI

Aug 04, 2022

DEVELOPED BY

DONALD H. LANIER (COLE NESBITT)

OFFICE

AJV-A431

DATE

05/03/2022

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	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	445514.0160N
LTP/FTP LONGITUDE	0970903.8090W
LTP/FTP ELLIPSOIDAL HEIGHT	+05054
FPAP LATITUDE	445344.9300N
FPAP LONGITUDE	0970904.3600W
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	AF17E33D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05306
FPAP ORTHOMETRIC HEIGHT	+05306

