# 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.

AIRPORT ID BDH AIRPORT ELEVATION 1126 FACILITY RNAV	PROCEDURE NAME RNAV (GPS) RWY 31 TDZE SUPERSEDED 1126 RNAV (GPS) RWY 31 COORDINATES OF FACILITIES					<u>CITY</u> WILLMAR I <u>T DATED</u> 07/18/2019 RED EFFECTIVE DATE ROUTINE	MAG VAR EI 4E CANCEL/SUSP	STATE MN EPOCH YEAR 2000 JSPEND	
TERMINAL ROUTES									
FROM	FIX TYPE	<u>T0</u>	FIX TYPE	LEG TYPE	FO/FB	<u>RNP</u>	COURSE	DISTANCE	ALTITUDE
CLAPS		HEPIV		TF	FO	1.00	099.10	17.62	2800
ARMUW		HEPIV		TF	FO	1.00	152.52	29.49	3100
RWF VOR/DME	IAF	HEPIV	NOPT	TF	FB	1.00	011.71	32.74	2800
HEPIV	IF/IAF	FIKIG		TF	FB	1.00	305.89	6.20	2800
FIKIG	FAF	ZONUL/1.59 NM TO RW31		TF	FB	0.30	305.80	3.52	
ZONUL/1.59 NM TO RW31		RW31	MAP	TF	FO	0.30	305.80	1.59	
RW31	MAP	1326 MSL		CA			305.80		
1326 MSL		BEESE		DF	FO	1.00			2800

# MISSED APPROACH

#### MAP:

LPV: DA LNAV/VNAV: DA LNAV: RW31

# **MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2800 DIRECT BEESE AND HOLD.

# **ALTERNATE MISSED APPROACH INSTRUCTIONS:**

# PROFILE:

1.	PT SIDE OF COU	RSE OUTBOUN	D	FT WITHIN	MILES OF (	IAF)			
2.	HOLD SE HEPIV, RT, 305.89 II	NBOUND, 2800 FT. IN LIEU OF PT	(IAF), MAX 6000						
3.	FAC: 305.80	FAF: FIKIG		DIST FAF TO MAP:	5.10	DIST FAF T	<b>O THLD:</b> 5.10		
4.	MIN ALT: HEPIV 2800, FIKIO	2800, ZONUL/1.59 NM TO RW31	1680						SNL IS
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT:	0.47	GS ANT:		QUALITY
6.	MIN GP INCPT: 2800	GP ALT AT FAF: FIKIG 2800			OM:		MM:	IM:	35
7.	<b>GP ANGLE:</b> 3.00	34:1: IS CLEAR 2	0:1: IS CLEAR	<b>TCH:</b> 49.2					Q Q
8.	MSA FROM: RW31 3100								NECKE

<u>AIRPORT ID</u>	PROCEDURE NAME	ORIGINAL/AMENDMENT	<u>CITY</u>	<u>STATE</u>
BDH	RNAV (GPS) RWY 31	2	WILLMAR	MN

#### PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

# NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CLAPS ON T462 WESTBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ARMUW ON V175 NORTHBOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RWF VOR/DME AIRWAY RADIALS 350 CW 076. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OLIVIA ALTIMETER SETTING; INCREASE LPV DA TO 1381 FEET; INCREASE LNAV/VNAV DA TO 1475 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C AND D 1/4 SM. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING OLIVIA RGNL ALTIMETER SETTING.

### **ADDITIONAL FLIGHT DATA:**

HOLD NW, RT, 125.59 INBOUND. CHART FAS OBST: 1239 TREE 450646N/0950629W. CHART VDP AT 1.02 NM TO RW31. WAAS CHANNEL # 72632 REFERENCE PATH ID: W31A LTP HAE: 316.5 M

# MINIMUMS:

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

ALTERNATE: NA

STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	Α		В		С		D		E						
FINAL TYPE	DA/MDA	VIS	HAT/HAA												
LPV DA	1326	3/4	200	1326	3/4	200	1326	3/4	200	1326	3/4	200			
LNAV/VNAV DA	1420	3/4	294	1420	3/4	294	1420	3/4	294	1420	3/4	294			
LNAV MDA	1500	1	374	1500	1	374	1500	1	374	1500	1	374			

0<sup>UAL/7</sup>/ 35

AIRPORT ID BDH	PROCEDURE NAME RNAV (GPS) RWY 31	ORIGINAL/AMENDMENT 2	<u>CITY</u> WILLMAR	<u>STATE</u> MN
CHANGES - REASONS				
2. TERMINAL ROUTES: CHANGED INTERMEDIATE IS LESS THAN 90 3. TERMINAL ROUTES: CHANGED 4. TERMINAL ROUTES: CHANGED 5. TERMINAL ROUTES: CHANGED 6. PROFILE LINE 2: ADDED MAX H 7. PROFILE LINE 2: ADDED MAX H 7. PROFILE LINE 4: CHANGED FRO GPA/TCH AND ALIGNED TO FAC. 8. PROFILE LINE 5: MOVED "200 H 9. PROFILE LINE 5: MOVED "200 H 9. PROFILE LINE 5: MOVED "200 H 10. REMOVED RNP APCH AND AD 11. CHANGED BACKUP ALTIMETE AND INCREASE LNAV/VNAV ALL C SETTING; INCREASE LPV DA TO UPDATED 8260.3E TABLE 3-3-1. 12. CHANGED CHART NOTE FROI LNAV/VNAV NA BELOW -17°C OR 13. CHANGED CHART NOTE FROI LNAV/VNAV NA BELOW -17°C OR 13. CHANGED PLANVIEW NOTE F "PROCEDURE NA FOR ARRIVAL C 14. CHANGED FROM "CHART PLA ON T462 WESTBOUND" - V78 NO 15. ADDITIONAL FLIGHT DATA: CH 17. ADDITIONAL FLIGHT DATA: CH 17. ADDITIONAL FLIGHT DATA: CH 18. CHANGED LNAV/VNAV ALL CA 200. 191 8-6- 7D AND 8-6-10M (ME 18. CHANGED LNAV/VNAV ALL CA PER ADO REQUEST.	DEGREES, 8260.3E PARA 2-3-1(A)3. DEGREES, 8260.3E PARA 2-3-1(A)3. FAF TO SDF DISTANCE FROM 3.50 TO 3.52 - SDF TO MAP DISTANCE FROM 1.60 TO 1.59 - OLD-IN-LIEU ALTITUDE OF 6000 - 8260.191, 8- OM "HEPIV 2800, FIKIG 2800, ZONUL/1.60 NM HEPIV 2800, FIKIG 2800, ZONUL/1.60 NM AT: 0.47" FROM ADDITIONAL FLIGHT DATA TO SCLEAR - NO PENETRATIONS EXIST. DED RNP APCH - GPS TO PBN REQUIREMEN R NOTE FROM "WHEN LOCAL ALTIMETER SE CATS VISIBILITY 1/8 MILE AND LNAV CATS C / 1381 FEET; INCREASE LNAV/VNAV DA TO 147. M "FOR UNCOMPENSATED BARO-VNAV SYST ABOVE 54°C" - NEW EVALUATION WITH UPD/ ROM "PROCEDURE NA FOR ARRIVAL ON RW DN RWF VOR/DME AIRWAY RADIALS 350 CW ( NVIEW NOTE: PROCEDURE NA FOR ARRIVAL LONGER EXIST. HANGED FROM "HOLD NW, RT, 125.58 INBOUI HANGED CHART FAS OBST FROM "1239 TREE EMOVED "*LNAV ONLY" AND CHANGED FROM MO), VDP CHANGED BASED ON FAF AND SDIA AND AND AND SDIA AND AND AND AND SDIA AND AND AND AND SDIA AND AND AND AND AND SDIA AND AND AND AND SDIA AND AND AND AND SDIA AND AND AND AND SDIA AND AND AND AND AND SDIA AND AND AND AND SDIA AND AND AND AND AND AND AND AND AND AND	TO A INITIAL SEGMENT AND ADDED NOPT TO FIX TYPE - L/1.59 NM TO RW31" - SDF RELOCATED BASED ON GPA/T SDF RELOCATED BASED ON GPA/TCH AND ALIGNED. SDF RELOCATED BASED ON GPA/TCH AND ALIGNED. 6-7, B(2). TO RW31 1680*" TO "HEPIV 2800, FIKIG 2800, ZONUL/1.59 D LINE 5 - PER 8260.19I 8-6-7E(3). TTS NOTE - PER 8260.19I, 8-6-8B2. TTING NOT RECEIVED, USE OLIVIA ALTIMETER SETTING AND D VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER 5 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDA STENS, LNAV/VNAV NA BELOW -17°C OR ABOVE 46°C" TO ' ATED CRITICAL TEMPERATURES. F VOR/DME AIRWAY RADIALS 283 CW 076 AND ARRIVALS 076" - DWN VOR MON NATL PROGRAM. LS AT CLAPS ON V78 WESTBOUND" TO "CHART PLANVIE' ND" TO "HOLD NW, RT, 125.59 INBOUND" - BASED ON RN/ 450645N/0950626W" TO "1239 TREE 450646N/0950629W"	CH AND ALIGNED TO FAC. NM TO RW31 1680" - SDF RELOCA S AND INCREASE ALL DA 55 FEET SETTING NOT RECEIVED, USE O S 60 FEET AND LNAV VISIBILITY ( FOR UNCOMPENSATED BARO-VI S ON DWN VORTAC AIRWAY RADI W NOTE: PROCEDURE NA FOR A AV (GPS) RWY 13 HIL CHANGES. - NEW CONTROLLING OBSTACLE 0.95 NM TO RW31" - NO LONGER DNTROLLING OBSTACLE, VIS NO 1	ATED BASED ON AND ALL MDA 60 FEET LIVIA ALTIMETER CAT C AND D 1/4 SM" - NAV SYSTEMS, ALS 261 CW 321" TO RRIVALS AT CLAPS REQUIRED; IAW LOWER THAN 3/4 SM
COORDINATED WITH:		OTHER: ZMP, AMGR		
FLIGHT CHECKED BY SCOTT WIEBE	Digitally signed by CASIMIR L TABAKA	OFFICE FPO	<u>DATE</u> 11/17/2023	

Digitally signed by

CASIMIR L TABAKA

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

APPROVED BY CASIMIR L. TABAKA

Oct 22, 2023 Digitally signed by CASIMIR L TABAKA Oct 22, 2023

Nov 28, 2023

<u>TITLE</u> MANAGER

**OFFICE** 

AJV-A432

OFFICE

AJV-A432

DATE

07/13/2023

DATE

AIRPORT ID BDH	PROCEDURE NAME RNAV (GPS) RWY 31	ORIGINAL/AMENDMENT 2	<u>CITY</u> WILLMAR	<u>STATE</u> MN
FAS DATA BLOCK INFORMATIO	N			
DATA FIELD		DATA		
OPERATION TYPE		0		
SBAS SERVICE PROVIDER IDEN	TIFIER	0		
AIRPORT IDENTIFIER		KBDH		
RUNWAY		RW31		
APPROACH PERFORMANCE DE	SIGNATOR	0		
ROUTE INDICATOR				
REFERENCE PATH DATA SELEC	TOR	0		
<b>REFERENCE PATH IDENTIFIER (</b>	APPROACH ID)	W31A		
LTP/FTP LATITUDE		450646.4320N		
LTP/FTP LONGITUDE		0950726.7685W		
LTP/FTP ELLIPSOIDAL HEIGHT		+03165		
FPAP LATITUDE		450743.3675N		
FPAP LONGITUDE		0950903.5515W		
THRESHOLD CROSSING HEIGHT		00049.2		
TCH UNITS SELECTOR (METERS	OR FEET USED)	F		
GLIDEPATH ANGLE (GPA)		03.00		
COURSE WIDTH AT THRESHOLD	)	106.75		
LENGTH OFFSET		1072		
HORIZONTAL ALERT LIMIT (HAL	)	40.0		
VERTICAL ALERT LIMIT (VAL)		35.0		
CRC REMAINDER		B0AC77EB		
ADDITIONAL PATH POINT RECO				
ICAO CODE		КЗ		
		+03432		
FPAP ORTHOMETRIC HEIGHT		+03432 +03432		

