

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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	PROCEDURE NAME ILS OR LOC RWY 13	ORIGINAL/AMENDMENT 1	CITY WILLMAR	STATE MN
AIRPORT ELEVATION 1126	TDZE 1124	SUPERSEDED ILS OR LOC RWY 13	DATED 05/20/2021	MAG VAR 4E
FACILITY I-BDH	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 25 JANUARY 2024	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2000
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RWF VOR/DME		BDH VOR/DME					353.07	39.03	3100
BDH VOR/DME		LOPOW INT/BDH 5.74 DME	FAF/IAF				304.33	5.74	3100

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.11 NM AFTER LOPOW INT/BDH 5.74 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3100 DIRECT BDH VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT R SIDE OF COURSE 305.72 OUTBOUND 2900 FT WITHIN 10 MILES OF LOPOW INT/BDH 5.74 DME (IAF)
-
- FAC: 125.72 FAF: LOPOW INT/BDH 5.74 DME DIST FAF TO MAP: 5.11 DIST FAF TO THLD: 5.11
- MIN ALT: LOPOW INT/BDH 5.74 DME 2800
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 951
- MIN GS INCPT: 2800 GS ALT AT PFAF: LOPOW INT/BDH 5.74 DME 2800 OM: MM: IM:
- GS ANGLE: 3.00 34:1: 20:1: TCH: 49.4
- MSA FROM: BDH VOR/DME 3100



NOTES:

CHART NOTE: CIRCLING NA TO RWYS 3 AND 21.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OLIVIA ALTIMETER SETTING: INCREASE S-ILS 13 DA TO 1379 FEET; INCREASE ALL MDAS 60 FEET AND CIRCLING VISIBILITY CAT D 1/4 SM.
CHART NOTE: VDP NA WHEN USING OLIVIA RGNL ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 315.98 INBOUND.
FAS OBST: 1350 AAO 451203N/0951441W.
CHART VDP AT 1.97 DME.
DISTANCE VDP TO THLD 1.33 NM.
CHART 3100 PRIOR TO LOPOW IN PROFILE.

MINIMUMS:

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

ALTERNATE: NA

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
S-ILS 13	1324	3/4	200	1324	3/4	200	1324	3/4	200	1324	3/4	200			
S-LOC 13	1600	3/4	476	1600	3/4	476	1600	1	476	1600	1	476			
CIRCLING	1600	1	474	1600	1	474	1660	1 1/2	534	1960	2 3/4	834			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED DWN VORTAC FEEDER - DWN VORMON NATL PROGRAM.
2. TERMINAL ROUTES: REPLACED "FITAS INT/RWF 35.91 DME" WITH RWF VOR/DME, CHANGED SEGMENT COURSE FROM 025.71 TO 353.07, DISTANCE FROM 3.64 TO 39.03 AND ALTITUDE FROM 3500 TO 3100 - PER IFP/ATC CHECKLIST REQUEST.
3. TERMINAL ROUTES: CHANGED FROM "LOPOW INT/BDH 5.65 DME" TO "LOPOW INT/BDH 5.74 DME" AND - FAF MOVED 507 FT BASED ON GPA/TCH.
4. TERMINAL ROUTES: CHANGED BDH VOR/DME TO LOPOW INT/BDH 5.74 DME DISTANCE FROM 5.65 TO 5.74 AND ALTITUDE FROM 3000 TO 3100 - FAF MOVED 507 FT BASED ON GPA/TCH, ALTITUDE CHANGE DUE TO NEW PT ENTRY CONTROLLING OBS.
5. MISSED APPROACH: CHANGED MAP LOC FROM "5.03 NM AFTER LOPOW INT/BDH 5.65 DME OR AT BDH 0.64 DME" TO "5.11 NM AFTER LOPOW INT/BDH 5.74 DME" - FAF MOVED 507 FT BASED ON GPA/TCH, UN-NAMED DME PORTION REMOVED DUE TO NOT MEETING FIX DISPLACEMENT CRITERIA.
6. CHANGED PRIMARY MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT BDH VOR/DME AND HOLD" TO "CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3100 DIRECT BDH VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100" - NEW CONTROLLING OBST IN C-I-H HOLDING PATTERN.
7. REMOVED ALTERNATE MISSED APPROACH INSTRUCTIONS - DWN VORMON NATL PROGRAM.
8. PROFILE LINE 1: CHANGED PT COURSE FROM 305.73 TO 305.72 AND OUTBOUND FROM 2800 TO 2900 - FAF MOVED 507 FT BASED ON GPA/TCH, ALTITUDE DRIVEN BY AIRSPACE OBSTACLE.
9. PROFILE LINE 3: CHANGED FAC FROM 125.73 TO 125.72, FAF FROM "LOPOW INT/BDH 5.65 DME" TO "LOPOW INT/BDH 5.74 DME", DIST FAF TO MAP AND DIST FAF TO THLD FROM 5.03 TO 5.11 - FAF MOVED 507 FT BASED ON GPA/TCH TO ALIGN TO FAC.
10. PROFILE LINE 4: CHANGED MIN ALT FROM "LOPOW 2800" TO "LOPOW INT/BDH 5.74 DME 2800" - FAF MOVED 507 FT BASED ON GPA/TCH.
11. PROFILE LINE 6: CHANGED GS ALT AT PFAF FROM "LOPOW INT/BDH 5.65 DME" TO "LOPOW INT/BDH 5.74 DME" - FAF MOVED 507 FT BASED ON GPA/TCH.
12. PROFILE LINE 7: CHANGED TCH FROM 52.2 TO 49.4 - NEW AIRNAV DATA FOR I-BDH.
13. REMOVED PLANVIEW NOTE "MAXIMUM ENTRY ALTITUDE 6000" - NO LONGER REQUIRED.
14. ADDED "CHART NOTE: VDP NA WHEN USING OLIVIA RGNL ALTIMETER SETTING" - 8260.19I, 8-6-9E(9).
15. CHANGED CHART NOTE FROM "CHART NOTE: CIRCLING RWY 3, 21 NA" TO "CIRCLING NA TO RWYS 3 AND 21" - UPDATED TO CURRENT FORMAT.
16. ADDITIONAL FLIGHT DATA: CHANGED FROM "HOLD SE, LT, 315.93 INBOUND" TO "HOLD SE, LT, 315.98 INBOUND" - ALIGN WITH VOR RWY 31 MISSED HOLD.
17. ADDITIONAL FLIGHT DATA: REMOVED "ALTERNATE MA HOLDING, HOLD E DWN VORTAC, RT, 277.00 INBOUND" - DWN VOR MON NATL PROGRAM.
18. ADDITIONAL FLIGHT DATA: REMOVED "CHART IN PLANVIEW DWN VORTAC" - DWN VOR MON NATL PROGRAM.
19. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART FAS OBST: 1320 CELL TOWER 450839N/0951029W" TO "FAS OBST: 1350 AAO 451203N/0951441W" - NEW CONTROLLING OBSTACLE.
20. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 1.97 DME" AND "DISTANCE VDP TO THLD 1.33 NM" - PER 8260.19I, 8-6-10M(MEMO).
21. CHANGED S-LOC 13 ALL CATS MDA/HAT FROM 1620/496 TO 1600/476 AND CAT A AND B VISIBILITY FROM 1 SM TO 3/4 SM AND CATS C AND D VISIBILITY FROM 1 1/4 SM TO 1 SM - NEW CONTROLLING OBSTACLE, UPDATED 8260.3E TABLE 3-3-1.
22. CHANGED CIRCLING CAT A AND B MDA/HAT FROM 1620/494 TO 1600/474 - NEW CONTROLLING OBSTACLE.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZMP, AMGR

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by
CASIMIR L TABAKA
Nov 28, 2023

OFFICE

FPO

DATE

11/16/2023

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by
CASIMIR L TABAKA

Oct 22, 2023

OFFICE

AJV-A432

DATE

07/11/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Oct 22, 2023

OFFICE

AJV-A432

DATE

TITLE
MANAGER

