

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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> KHLN	<u>PROCEDURE NAME</u> VOR -A	<u>ORIGINAL/AMENDMENT</u> 16	<u>CITY</u> HELENA	<u>STATE</u> MT	
<u>AIRPORT ELEVATION</u> 3877	<u>TDZE</u>	<u>SUPERSEDED</u> VOR-A	<u>ORIGINAL/AMENDMENT</u> 15C	<u>DATED</u> 04/22/2021	<u>MAG VAR</u> 12E
<u>FACILITY</u> HLN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<u>REQUIRED EFFECTIVE DATE</u> 02/23/2023	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2025

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

MISSED APPROACH

MAP:
HLN VORTAC

MISSED APPROACH INSTRUCTIONS:
CLIMBING RIGHT TURN TO 9000 ON HLN VORTAC R-340 TO WOKEN INT/GTF 37.68 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L SIDE OF COURSE 090.00 OUTBOUND 8700 FT WITHIN 10 MILES OF HLN VORTAC (IAF)
 2.
 3. FAF: 270.00 FAF: DIST FAF TO MAP: DIST FAF TO THLD:
 4. MIN ALT:
 8. MSA FROM: HLN VORTAC 045-135 10200, 135-225 10600, 225-315 9800, 315-045 9200

EQUIPMENT REQUIREMENTS NOTES:

NOTES:
 CHART NOTE: CIRCLING NA TO RWYS 10 AND 28.
 CHART NOTE: CIRCLING NA FOR CAT D S OF RWY 9-27.
 CHART NOTE: CIRCLING RWY 5, 23, 35 NA AT NIGHT.
 CHART NOTE: RWY 5, 23, 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.



ADDITIONAL FLIGHT DATA:

FAC ALIGNED TO HLN VORTAC.
HOLD SW, RT, 026.00 INBOUND.
FAS OBST: 5520 AAO 463529N/1114348W.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA CAT A, B 3400-2, CAT C, D 3400-3

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
CIRCLING	7200	1 1/4	3323	7200	1 1/2	3323	7200	3	3323	7200	3	3323				

CHANGES - REASONS

- KHLN AND HLN VORTAC MAGVAR UPDATED FROM 1990/16E TO 2025/12E.
- MISSED APPROACH RADIAL UPDATED FROM 336 TO 340 AND ADDED GTF DME - HLN VORTAC MAGVAR UPDATED FROM 1990/16E TO 2025/12E, HOLDING IS OFF OF GTF DME.
- REMOVED ALTERNATE MISSED APPROACH - PER FPT/BOTH PRIMARY AND ALTERNATE USED HLN VORTAC RADIAL, NO OTHER SUITABLE NAVAID AVAILABLE.
- PROFILE LINE 1: OUTBOUND ALTITUDE CHANGED FROM 8200 TO 8700 AND SIDE OF COURSE CHANGED FROM 085.99 TO 090.00 - ENSURE PROCEDURE TURN ALTITUDE REMAINS 10 NM IAW 8260.3E 4-2-4B, HLN VORTAC MAGVAR UPDATED AND ROUNDED TO WHOLE NUMBER FOR EASE OF PILOT USE.
- PROFILE LINE 3: FAC CHANGED FROM 265.99 TO 270.00 - HLN VORTAC MAGVAR UPDATED FROM 1990/16E TO 2025/12E AND ROUNDED TO WHOLE NUMBER FOR EASE OF PILOT USE.
- MSA: 135-225 CHANGED FROM 10700 TO 10600, 225-315 FROM 9600 TO 9800 - UPDATED OBSTACLE EVALUATION RESULTS.
- REMOVED "CHART PROFILE NOTE: PROCEDURE TURN: DESCEND TO 10000 IN HLN VORTAC HOLDING PATTERN PRIOR TO DEPARTING OUTBOUND FOR PROCEDURE TURN" - THERE IS NO ARRIVAL HOLDING AND CANNOT HAVE ONE AT IAF FOR DESCENT PURPOSE.
- CHART NOTE: HELICOPTER VISIBILITY NOTE UPDATED FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 05, 23, 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - IAW 8260.19I 8-6-11K(3).
- REMOVED "CHART IN PLANVIEW: HLN VORTAC" - NOT REQUIRED, HLN VORTAC PART OF THE PROCEDURE, FAC ALIGNMENT AND MAP.
- CHART FAS OBST: 5459 TREE UPDATED TO FAS OBST: 5520 AAO 463529N/1114348W - UPDATED MAP STUDY WITH NEW TOPO MAP AND CRITERIA NAMING IAW 8260.19I 8-6-10C NOTE.
- ALTERNATE MINS CHANGED FROM: CAT A, B 2900-2 TO 3400-2, CAT C, C 2900-3 TO 3400-3 - HAA INCREASED WITH 8700 COMPLETION ALTITUDE WITHIN 1500 FT IAW 8260.3E TABLE 2-4-5.
- ADDITIONAL FLIGHT DATA: ADDED "FAC ALIGNED TO HLN VORTAC" - IAW 8260.19I 8-6-10G(3).
- CIRCLING MDA/HAA INCREASED FOR ALL CATS FROM 6700/2823 TO 7200/3323 - MINIMA INCREASED WITH 8700 COMPLETION ALTITUDE WITHIN 1500 FT IAW 8260.3E TABLE 2-4-5.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZLC ARTCC, HLN APP CON, HLN ATCT, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by

JOHNNIE BAKER

Dec 22, 2022

OFFICE

DATE

DEVELOPED BY

RICHARD CHRISTENSEN

Digitally signed by

JOHNNIE BAKER

Dec 22, 2022

OFFICE

AJV-A431

DATE

08/31/2022

APPROVED BY

JOHNNIE BAKER

Digitally signed by

JOHNNIE BAKER

Dec 22, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER

12/22/2022: THIS A CORRECTED COPY OF THE FORM APPROVED ON 11/01/2022.
CHANGED REQUIRED EFFECTIVE DATE FROM 12/29/2022 TO 02/23/2023.

