

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
LOC BC STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.25**

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> LOC BC -C	<u>ORIGINAL/AMENDMENT</u> 6	<u>CITY</u> HELENA	<u>STATE</u> MT	
<u>AIRPORT ELEVATION</u> 3877	<u>TDZE</u>	<u>SUPERSEDED</u> LOC/DME BC-C	<u>ORIGINAL/AMENDMENT</u> 5B	<u>DATED</u> 04/22/2021	<u>MAG VAR</u> 12E
<u>FACILITY</u> I-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
USOBE/HLN VORTAC 13.00 DME CCW	IAF	LIKVE/HLN VORTAC 13.00 DME					13.00 DME ARC (HLN LR-279)		9000
ICADU/HLN VORTAC 13.00 DME CW	IAF	UGACE/HLN VORTAC 13.00 DME					13.00 DME ARC		10900
UGACE/HLN VORTAC 13.00 DME CW	IAF	VOCSU/HLN VORTAC 13.00 DME					13.00 DME ARC		10900
VOCSU/HLN VORTAC 13.00 DME CW		LIKVE/HLN VORTAC 13.00 DME					13.00 DME ARC (HLN LR-260)		9000
RICH/HLN VORTAC 19.67 DME	IAF	LIKVE/HLN VORTAC 13.00 DME					099.39 & 090.69	1.26 (HDG) & 5.43 (I-HLN R-271)	9000
LIKVE/HLN VORTAC 13.00 DME	IF	UPUGE/HLN VORTAC 9.00 DME					090.69	4.00 (I-HLN)	7800
UPUGE/HLN VORTAC 9.00 DME		MUSEW/HLN VORTAC 7.00 DME					090.69	2.00 (I-HLN)	7200

**MISSED APPROACH**

**MAP:**

SAKPE/HLN VORTAC 2.72 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING LEFT TURN TO 9400 ON HLN VORTAC R-340 TO WOKEN INT/GTF 37.68 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9400.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**





**CHANGES - REASONS**

1. PREVIOUS P-NOTAMS INCORPORATED INTO AMDT 6.
2. PROCEDURE NAMING CHANGED FROM LOC/DME BC-C TO LOC BC-C - UPDATED NAMING CRITERIA.
3. MAGVAR UPDATED FOR AIRPORT, I-HLN AND HLN VORTAC FROM 1990/16E TO 2025/12E - OUT OF TOLERANCE/PER FPT REQUEST.
4. LEAD RADIALS UPDATED WITH NEW MAGVAR: CHANGED FROM USOBE LR-275 TO LR-279, FROM VOCSU LR-256 TO LR-260 - HLN VORTAC MAGVAR UPDATED.
5. TERMINAL ROUTE FROM RICHD TO LIKVE; COURSE UPDATED FROM 131.00 & 086.69 TO 099.39 & 090.69, DISTANCE UPDATED FROM 0.29 (I-HLN) & 6.47 (I-HLN) TO 1.26 (HDG) & 5.43 (I-HLN R-271) - DR LEG OUT OF CRITERIA IAW 8260.3E 2-9-8.A, MOVED INTERCEPT POINT TO INCREASE DR DISTANCE, CNF EVAGE NO LONGER REQUIRED.
6. COURSES UPDATED FROM LIKVE TO UPUGE AND FROM UPUGE TO MUSEW FROM 086.69 TO 090.69 - I-HLN MAGVAR UPDATED.
7. MAP CHANGED FROM SAKPE/HLN 2.72 DME TO SAKPE/HLN VORTAC 2.72 DME - IAW 8260.19I 8-6-6C(1), MAP IS FIX, FAF TO MAP TIMING NOT USED, SPECIFIED WHICH NAVAID DME IS FROM.
8. REMOVED ALTERNATE MISSED APPROACH - PER FPT/BOTH PRIMARY AND ALTERNATE USED HLN VORTAC RADIAL, NO OTHER SUITABLE NAVAID AVAILABLE.
9. PROFILE LINE 3: FAC CHANGED FROM 086.69 TO 090.69 - MAGVAR UPDATED.
10. MSA: 135-225 CHANGED FROM 10700 TO 10600, 225-315 CHANGED FROM 9600 TO 9800 - UPDATED OBSTACLE EVALUATION RESULTS.
11. ADDED DME REQUIRED TO EQUIPMENT REQUIREMENTS NOTES - IAW 8260.19I 8-6-8A(2)(A).
12. CHANGED CHART NOTE: FROM VISIBILITY REDUCTION BY HELICOPTERS NA TO RWY 05, 23, 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - IAW 8260.19I 8-6-11K(3).
13. UPDATED VGSI NON COINCIDENT NOTE - IAW 8260.19I 8-6-9M(2).
14. UPDATED CHART HLN RADIALS: FROM R-266 TO R-270 AT RICHD, FROM R-336 TO R-340 AT USOBE, FROM R-175 TO R-179 AT ICADU, FROM R-208 TO R-212 AT UGACE, FROM R-228 TO R-232 AT VOCSU - HLN VORTAC MAGVAR UPDATED.
15. CHART ARRIVAL HOLDING AT RICHD CHANGED FROM HOLD W, RT, 086.40 INBOUND, 9800 TO HOLD W, RT, 090.40 INBOUND, 9900 - MAGVAR UPDATED AND NEW OBSTACLE EVALUATION AND PR RESULTS.
16. REMOVED "CHART (EVAGE) AT INTERSECTION OF DR LEG AND INTERMEDIATE COURSE" FROM NOTES - DR LEG EXTENDED FOR OUT OF CRITERIA IAW 8260.3E 2-9-8A, CNF EVAGE NO LONGER REQUIRED.
17. NOTES: REMOVED CHART HLN R-266 AT RICHD - CNF EVAGE NO LONGER REQUIRED AT DR INTERCEPT POINT.
18. FAS OBSTACLE CHANGED FROM 4359 AAO 463709N/1120636W TO 4320 AAO 463709N/1120636W - NEW OBSTACLE EVALUATION RESULTS.
19. ADDITIONAL FLIGHT DATA: 7:1 OBST CHANGED FROM 4879 AAO 463646N/1120811W TO 4840 AAO 463645N/1120811W - UPDATED 7:1 EVALUATION RESULTS WITH NEW MAP STUDY.
20. ALTERNATE MINIMUMS CHANGED FROM "CAT A/B 1300-2, CAT C 2100-3 - NA WHEN CONTROL TOWER CLOSED" TO "CAT A, B 1300-2, CAT C 2200-3, NA WHEN CONTROL TOWER CLOSED" - NEW OBSTACLE EVALUATION RESULTS, CAT C CMDA/HAA UPDATED.
21. CIRCLING MDA/HAA CHANGED FROM CAT C: 5920/2043 TO 6000/2123 - NEW OBSTACLE EVALUATION AND MAP STUDY, 5699 PLANTED TREE.

**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**  
09/08/2022

**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.

