

**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.

<u>AIRPORT ID</u> KHLN	<u>PROCEDURE NAME</u> ILS OR LOC Y RWY 27	<u>ORIGINAL/AMENDMENT</u> 3D	<u>CITY</u> HELENA	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3877	<u>TDZE</u> 3852	<u>SUPERSEDED</u> ILS OR LOC Y RWY 27	<u>ORIGINAL/AMENDMENT</u> 3C	<u>DATED</u> 07/16/2020	<u>MAG VAR</u> 16E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> I-HLN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<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>
HLN VORTAC		HAU NDB					089.65	8.40	9700
FALDE INT		HAU NDB					239.24	10.02	9600
SWEDD INT		HAU NDB					292.96	11.37	9900
JUVGO/HLN 22.00 DME	IAF	DOOKR/HLN 20.00 DME	NOPT				266.71	2.00 (I-HLN)	10200
DOOKR/HLN 20.00 DME		YERUT/HLN 16.40 DME					266.71	3.60 (I-HLN)	9000
YERUT/HLN 16.40 DME	IF	GELEY/HLN 10.67 DME	PFAF				266.71	5.73 (I-HLN)	7400
YERUT/HLN 16.40 DME	IF	HAU NDB					266.71	8.01 (I-HLN)	7100*

MISSED APPROACH

MAP:

ILS: DA
LOC: 8.72 NM AFTER HAU NDB

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4700 THEN CLIMBING RIGHT TURN TO 9000 ON HEADING 021 AND HLN VORTAC R-336 TO WOKEN INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD E HAU NDB, RT, 266.71 INBOUND, 7400 FT. IN LIEU OF PT (IAF), MAX 14000.
3. FAC: 266.71

FAF: HAU NDB

PFAF: GELEY/HLN 10.67 DME

DIST FAF TO MAP: 8.72

DIST FAF TO THLD: 8.72
4. MIN ALT: HAU NDB 7100*, FERRI OM/4.42 DME 5620*
5. DIST TO THLD FROM OM: 4.73

MM:

IM:

150 HAT:

GS ANT: 1019
6. MIN GS INCPT: 7400

GS ALT AT : GELEY/HLN 10.67 DME 7400

OM: 5427

MM:

IM:
7. GP ANGLE: 3.00

34:1:

20:1:

TCH: 54.5
8. MSA FROM: HAU NDB 045-225 10800, 225-315 10000, 315-045 9200

EQUIPMENT REQUIREMENTS NOTES:

ADF OR DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 10 AND 28.
CHART NOTE: CIRCLING RWY 5, 23, 35 NA AT NIGHT.
*LOC ONLY
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC 27 CATS C/D/E, FERRI FIX MINIMUMS S-LOC 27 CATS A/B. FOR INOPERATIVE ALS, INCREASE S-ILS 27 ALL CATS VISIBILITY TO 1 5/8 SM, S-LOC 27: CAT A VISIBILITY TO 1 1/4 SM, FERRI FIX MINIMUMS: S-LOC 27 CAT C/D/E VISIBILITY TO 2 SM.
CHART NOTE: HOLDING AT HAU NDB AUTHORIZED FOR CATEGORY A AND B AIRCRAFT ONLY.
CHART NOTE: CIRCLING NA SOUTH OF RWY 9-27 FOR CATS D AND E.
CHART NOTE: DME FROM HLN VORTAC, SIMULTANEOUS RECEPTION OF I-HLN AND HLN DME REQUIRED.

ADDITIONAL FLIGHT DATA:

CHART: 175K ICON AT HAU NDB
CHART: ARRIVAL HOLDING AT JUVGO: HOLD E, RT, 266.71 INBOUND, 11,100. (DME REQUIRED).
HOLD SW, RT, 026.00 INBOUND.
FAS OBST: 4319 AAO 463425N/1115053W.
CHART CIRCLING ICON.



MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED.; LOC: CAT A, B 1800-2, CAT C, D, E 2100-3, NA WHEN CONTROL TOWER CLOSED.

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
S-ILS 27	4409	1 1/8	557	4409	1 1/8	557	4409	1 1/8	557	4409	1 1/8	557	4409	1 1/8	557
S-LOC 27	5620	1	1768	5620	1	1768	5620	3	1768	5620	3	1768	5620	3	1768
CIRCLING	5620	1 1/4	1743	5620	1 1/2	1743	5920	3	2043	5920	3	2043	5920	3	2043
FERRI FIX MINIMUMS*															
S-LOC 27	4580	1	728	4580	1	728	4580	1 5/8	728	4580	1 5/8	728	4580	1 5/8	728
CIRCLING	4640	1	763	4800	1 1/4	923	5920	3	2043	5920	3	2043	5920	3	2043

CHANGES - REASONS

1. INCORPORATED P-NOTAMS 4/8888 3B, 0/2461 3C.- 8260.19I, 8-3-4.
2. "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC 27 ALL CATS. FOR INOPERATIVE MALSR, INCREASE S-ILS 27 ALL CATS VISIBILITY TO 1 7/8 MILES, FERRI FIX MINIMUMS: S-LOC 27 CAT C,D AND E VISIBILITY TO 2 MILES" CHANGED TO "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC 27 CATS C/D/E, FERRI FIX MINIMUMS S-LOC 27 CATS A/B. FOR INOPERATIVE ALS, INCREASE S-ILS 27 ALL CATS VISIBILITY TO 1 5/8 SM, S-LOC 27: CAT A VISIBILITY TO 1 1/4 SM, FERRI FIX MINIMUMS: S-LOC 27 CAT C/D/E VISIBILITY TO 2 SM".- UPDATED VISCHECK RESULTS.
3. REMOVED "CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 34 NA AT NIGHT".- INCORPORATED INTO "CHART NOTE: CIRCLING RWY 5, 23, 35 NA AT NIGHT".
4. REMOVED "CHART PLANVIEW NOTE: ADF OR DME REQUIRED" AND MOVED IT TO EQUIPMENT REQUIREMENTS NOTES - NEW CRITERIA REQUIREMENT.
5. VISIBILITY: S-ILS 27 ALL CATS CHANGED FROM 1 3/8 SM TO 1 1/8 SM, S-LOC 27 CATS A/B CHANGED FROM 1 1/4/1 1/2 TO 1/1, FERRI FIX S-LOC 27 CATS A/B CHANGED FROM 1/2 TO 1.- UPDATED VISCHECK RESULTS.
6. ADDED CHART NOTE: CIRCLING NA TO RWYS 10 AND 28. - RUNWAY 10 AND 28 IDENTIFIED AS TURF RUNWAYS.

COORDINATED WITH:**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC ARTCC, HLN APP CON, AMGR, HLN ATCT**FLIGHT CHECKED BY**PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED**OFFICE****DATE****DEVELOPED BY**

DONALD H. LANIER (TIA FERONTI)

Digitally signed by

DONALD H LANIER

Mar 01, 2021

DONALD H LANIER

Mar 01, 2021

OFFICE

AJV-A431

DATE

12/15/2020

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Mar 01, 2021

OFFICE

AJV-A430

DATE**TITLE**
MANAGERQUALITY
22
CHECKED