

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
VOR/DME OR TACAN 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> PHLI	<u>PROCEDURE NAME</u> VOR OR TACAN RWY 21	<u>ORIGINAL/AMENDMENT</u> 5	<u>CITY</u> LIHUE	<u>STATE</u> HI		
<u>AIRPORT ELEVATION</u> 152	<u>TDZE</u> 118	<u>SUPERSEDED</u> VOR/DME OR TACAN RWY 21	<u>ORIGINAL/AMENDMENT</u> 4B	<u>DATED</u> 08/20/2015	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> LIH	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 APRIL 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
NAPUA INT/LIH 14.66 DME		NAGAI/12.00 DME					328.00	2.66 (LIH R-148)	6000
LIH VORTAC		KREEN/12.00 DME/RADAR					070.07	12.00	3000
NAGAI/12.00 DME CCW	IAF	DARIL/12.00 DME/RADAR					12.00 DME ARC		3000
KREEN/12.00 DME/RADAR CCW	IAF	DARIL/12.00 DME/RADAR					12.00 DME ARC		3000
DARIL/12.00 DME/RADAR	IF	GONEC/9.00 DME					191.02	3.00 (LIH R-011)	2400
GONEC/9.00 DME		KEKOA/6.00 DME					191.02	3.00 (LIH R-011)	1700

**MISSED APPROACH**

**MAP:**

4.10 NM AFTER KEKOA/6.00 DME OR AT LELEO/1.90 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 152 AND LIH VORTAC R-148 TO NAGAI/12.00 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF      (IAF)
2. PROFILE STARTS AT DARIL
3. FAC: 191.01      FAF: KEKOA/6.00 DME      DIST FAF TO MAP: 4.10      DIST FAF TO THLD: 4.86
4. MIN ALT:    DARIL/12.00 DME/RADAR 3000, GONEC/9.00 DME 2400, KEKOA/6.00 DME 1700
8. MSA FROM:    LIH VORTAC 360-230 3500, 230-360 6400

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.



NOTES:

CHART NOTE: CIRCLING NA AT NIGHT.  
CHART NOTE: CIRCLING NA W OF RWY 17-35.  
CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 327.99 INBOUND.  
FAS OBST: 220 AAO 220324N/1591921W.  
CHART LIH R-148 AT NAGAI.  
CHART LIH R-070 AT KREEN.  
FAC CROSSES RWY C/L EXTENDED 4985 FT FROM THLD.  
CHART CIRCLING ICON.  
KEKOA TO RW21: 3.03/55.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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-21	520	1	402	520	1	402	520	1 1/8	402	520	1 1/8	402			
CIRCLING	520	1	368	620	1	468	620	1 1/2	468	720	2	568			

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM "VOR/DME OR TACAN" TO "VOR OR TACAN" - PER 8260.3E 1-1-5 A(3).
2. UPDATED AIRPORT ELEVATION FROM 153 TO 152 - NEW AIRNAV DATA.
3. CHANGED FEEDER SEGMENT NAPUA INT/LIH 16.66 DME TO NAGAI/12.00 DME COURSE FROM 328.05 TO 328.00 - IAPA TO TARGETS SOFTWARE UPDATED NAPUA TO NAGAI COURSE.
4. CHANGED MAP FROM "LELEO/1.90 DME" TO "4.10 NM AFTER KEKOA/6.00 DME OR AT LELEO/1.90 DME" - PER 8260.19I 8-6-6C(2).
5. CHANGED MSA FROM "LIH VORTAC 360-230 3500, 230-360 6500" TO "LIH VORTAC 360-230 3500, 230-360 6400" ON PROFILE LINE 8 - NEW OBSTACLE EVALUATION.
6. REMOVED CHART NOTE "CIRCLING NA BETWEEN RWYS 3-35" AND ADDED "CIRCLING NA W OF RWY 17-35" - NO 20:1 PENETRATIONS TO CIRCLING RWYS, FPT COORDINATED CIRCLING RESTRICTION CHANGE, FORMAT IAW 8260.19I 8-6-9A(5).
7. CHANGED CHART PROFILE NOTE FROM "VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH{FEET})" - PER 8260.19H, 8-6-9M(2).
8. ADDED "CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 34:1 PENETRATIONS, PER 8260.19I, 8-6-11K(3).
9. CHANGED FROM "CHART FAS OBST: 208 SHIP 220129N/1591915W" TO "FAS OBST: 220 AAO 220324N/1591921W" - NEW OBSTACLE EVALUATION.
10. CHANGED FROM "FAC CROSSES RWY C/L EXTENDED 4973 FT FROM THLD" TO "FAC CROSSES RWY C/L EXTENDED 4985 FT FROM THLD" IN ADDITIONAL FLIGHT DATA - IAPA TO TARGETS SOFTWARE UPDATED CALCULATION.
11. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19I, 8-6-10S.
12. CHANGED ALTERNATE MINIMUMS FROM "STANDARD - CAT B 900-2, CAT C 1000-2 3/4, CAT D 1000-3" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - PER 8260.19I, 8- 6-11B(4).
13. UPDATED S-21 MINIMUMS HAT FROM 437 TO 402 AND CAT C/D VISIBILITY FROM 1 1/4 SM TO 1 1/8 SM - NEW OBSTACLE EVALUATION WITH MA ADJUSTMENT, UPDATED 8260.3D VIS TABLES.
14. UPDATED CIRCLING MINIMUMS CAT A FROM MDA/HAT 600/447 TO MDA/HAT 520/368, CAT B FROM MDA/HAT 1000/847 TO MDA/HAT 620/468, CAT C FROM MDA/HAT 1060/907 TO MDA/HAT 620/468, CAT D FROM MDA/HAT 1060/907 TO MDA /HAT 720/568 AND CAT B VISIBILITY FROM 1 1/4 SM TO 1 SM, CAT C VISIBILITY FROM 2 3/4 SM TO 1 1/2 SM, CAT D VISIBILITY FROM 3 SM TO 2 SM - CIRCLING MINIMUMS LOWERED BASED ON ILS OR LOC RWY 35 A7 FULL AMENDMENT AND MATCHING HIGHER STRAIGHT-IN MINIMA, UPDATED 8260.3D VIS TABLES.
15. ADDED "DIST FAF TO MAP: 4.10" TO PROFILE LINE 3 - PER 8260.19I, 8-6-7C(3).
16. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING LEFT TURN TO 3000 VIA HEADING 152 LIH VORTAC R-148 TO NAGAI/12.00 DME AND HOLD" TO "CLIMB TO 600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 152 AND LIH VORTAC R-148 TO NAGAI/12.00 DME AND HOLD" - PER 8260.19I, 8-6-6D(7).
17. ADDED DME REQUIRED TO EQUIPMENT REQUIREMENTS NOTES - PER 8260.19I, 8-3-4B(6).
18. NOTAM FDC 0/5018 INCORPORATED INTO THIS AMENDMENT - REQUIRED IAW 8260.19I, 8-3-4C(3).



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<u>COORDINATED WITH:</u> A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> LIH ATCT, HCF APP CON, ZHN, AMGR.				
<u>FLIGHT CHECKED BY</u> JORDAN ROLIH	<i>Digitally signed by</i> <b>CASIMIR L TABAKA</b> Feb 28, 2023	<u>OFFICE</u> FPO	<u>DATE</u> 02/24/2023	
<u>DEVELOPED BY</u> JON DENTON (GORDON LEMON)	<i>Digitally signed by</i> <b>CASIMIR L TABAKA</b> Mar 14, 2022	<u>OFFICE</u> AJV-A432	<u>DATE</u> 09/09/2021	
<u>APPROVED BY</u> LONNIE EVERHART	<i>Digitally signed by</i> <b>CASIMIR L TABAKA</b> Mar 14, 2022	<u>OFFICE</u> AJV-A430	<u>DATE</u>	<u>TITLE</u> MANAGER

