

**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</u> DANIEL K INOUE INTL	<u>AIRPORT ID</u> PHNL	<u>PROCEDURE NAME</u> ILS Z RWY 4R	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> HONOLULU	<u>STATE</u> HI	
<u>AIRPORT ELEVATION</u> 13	<u>TDZE</u> 9	<u>SUPERSEDED</u> ILS Z RWY 4R	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 04/27/2017	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> I-IUM	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<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>
ALANA INT/HNL 13.94 DME CW	IAF	YEPGU/I-IUM 15.94 DME					13.94 DME ARC (HNL LR-214)		3000
HAURY	IAF	DEBRY		TF	FB	1.00	072.87	5.37	2000
YEPGU/I-IUM 15.94 DME		DEBRY/I-IUM 9.36 DME/RADAR					042.01	6.58 (I-IUM)	2000
DEBRY/I-IUM 9.36 DME/RADAR	IF	PERLY/I-IUM 6.16 DME/RADAR	PFAF				042.01	3.20 (I-IUM)	1500

MISSED APPROACH

MAP:
ILS: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 540, CAT E CLIMB TO 780 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 220 AND ON HNL VORTAC R-171 TO ALANA INT/HNL VORTAC 13.94 DME AND HOLD. *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 318 FT PER NM TO 1820, (IF UNABLE TO MEET CLIMB GRADIENT USE S-ILS 04R MINIMUMS).

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 540, CAT E CLIMB TO 780 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 170 AND ON CKH VORTAC R-218 TO ALANA/CKH VORTAC 17.44 DME AND HOLD. (DME REQUIRED) *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 318 FT PER NM TO 1820 (IF UNABLE TO MEET CLIMB GRADIENT USE S-ILS 04R MINIMUMS).

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT DEBRY
3. **FAC:** 042.01 **PFAF:** PERLY/I-IUM 6.16 DME/RADAR **DIST PFAF TO MAP:** **DIST PFAF TO THLD:**
4. **MIN ALT:** YEPGU/I-IUM 15.94 DME 3000, DEBRY/I-IUM 9.36 DME/RADAR 2000, PERLY/I-IUM 6.16 DME/RADAR 1500
5. **DIST TO THLD FROM PFAF:** 4.51 **MM:** **IM:** **150 HAT:** **GS ANT:** 1050
6. **MIN GS INCPT:** 1500 **GS ALT AT PFAF :** PERLY/I-IUM 6.16 DME/RADAR 1500 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 55.4
8. **MSA FROM:** HNL VORTAC 360-180 4400, 180-270 4000, 270-360 5300



EQUIPMENT REQUIREMENTS NOTES:

FROM HAURY: RNAV 1-GPS REQUIRED.
DME OR RADAR REQUIRED.
DME OR RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALANA ON V16 EASTBOUND.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: HAURY TRANSITION NA FOR CAT E AIRCRAFT.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 4R CATS A-D VISIBILITY TO 7/8 SM, INCREASE S-ILS 4R CAT E VISIBILITY TO 1 5/8 SM.
CHART MANDATORY 4000 AT HAURY.
CHART SPEED ICON IN PLANVIEW AT HAURY: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART HNL R-171 AT ALANA.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW ALANA, RT, 038.45 INBOUND.
HOLD S, RT, 351.00 INBOUND

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

ALTERNATE: NA ☐ ILS: STANDARD

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 04R*	209	1/2	200	209	1/2	200	209	1/2	200	209	1/2	200		NA	
S-ILS 04R	308	1/2	299	308	1/2	299	308	1/2	299	308	1/2	299	566	1 1/8	557

CHANGES - REASONS

1. ADDED INITIAL APPROACH SEGMENT FROM FIX ALANA TO IAF SDF FIX YEPGU AND REQUIRED PLANVIEW NOTES - PER FPT CHECKLIST TO CONNECT WITH MAKAH STAR.
2. ADDED IAF SEGMENT FROM WP HAURY TO FIX DEBRY - PER FPT CHECKLIST TO CONNECT WITH KLANI STAR.
3. ADDED 210 SPEED RESTRICTION AT HAURY - MATCH STAR.
4. ADDED PROCEDURE ENTRY NOTE DME OR RADAR REQUIRED FOR PROCEDURE ENTRY. - DME IS REQUIRED FOR ALL FIXES AND ARC, AND RADAR.
5. ADDED EQUIPMENT REQUIREMENTS NOTE: FROM HAURY: RNAV 1-GPS REQUIRED. - IAW FAAO 8260.19H, PARA 8-6-8.A.(6).(B).
6. UPDATED MISSED APPROACH AND ALTERNATE MISSED APPROACHES FROM "CLIMB TO 480, CAT E CLIMB TO 760 THEN CLIMBING RIGHT TURN..." TO "CLIMB TO 540, CAT E CLIMB TO 780 THEN CLIMBING RIGHT TURN..." - CA LEG RAISED IAW FAAO 8260.58A, ATTACHMENT 7.
7. REMOVED CHART NOTE: *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 335 FEET PER NM TO 2000" - THIS UPDATED INFORMATION NOW IS LISTED IMMEDIATELY FOLLOWING THE MISSED APPROACH INSTRUCTIONS: *MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 318 FEET PER NM TO 1820; IF UNABLE TO MEET CLIMB GRADIENT USE S-ILS 04R MINIMA - IAW FAAO 8260.19H, PARA 8-6-6.F.
8. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALANA ON V16 EASTBOUND - REQUIRED NOTE FOR TURN EXCEEDING 120 DEGREES.
9. ADDED CHART NOTE: HAURY TRANSITION NA FOR CAT E AIRCRAFT - 210 KTS SPEED RESTRICTION.
10. ADDED A4A AND REMOVED ATA TO REQUIRED CHARTING - AIRPORT IS SERVICED BY AIR CARRIERS AND AMERICAN AIRLINES IAW FAAO 8269.19H, PARA 8-6-13.A.
11. REMOVED CHART NOTE: "DME OR RADAR REQUIRED" - REPLACED BY EQUIPMENT REQUIREMENTS NOTE.
12. TERMINAL ROUTES CHANGED: IAF FIX YEPGU ADDED TO REPLACED FIX DEBRY AS IAF; IF FIX LANE0 REMOVED FROM PROCEDURE AND FIX DEBRY MOVED AND REPLACED FIX LANE0 AS THE IF - PER FPT REQUEST.
13. ADDED "YEPGU/DME 15.94" TO PROFILE LINE 4. MIN ALT FOR CLARITY - FIX YEPGU IS LOCATED ON THE FINAL APPROACH COURSE EXTENDED AND ADDED IAW FAAO 8260.19H, PARA 8-6-7.B.(3).(A).
14. RAISED S-ILS 4R DA/HAT CATS A-D FROM 281/272 TO 308/299 AND CAT E FROM 556/547 TO 566/557 - NEW CONTROLLING AAO OBSTACLES FROM MAP STUDY.
15. CHANGED NO LIGHT VISIBILITY NOTE FROM "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 4R CATS A, B, C, D VISIBILITY TO 3/4 SM; AND INCREASE CAT E VISIBILITY TO 1 7/8 SM" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 4R CATS A-D VISIBILITY TO 7/8 SM, INCREASE S-ILS 4R CAT E VISIBILITY TO 1 5/8 SM." - CURRENT VISIBILITY TABLE VALUES.
16. ADDED MANDATORY ALT AT HAURY - MATCH STAR.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZHN, HNL ATCT, AMGR, USAF

FLIGHT CHECKED BY

JOHN KEARBY

Digitally signed by

DAVID DANNER

Dec 03, 2019

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FICO

DATE

11/23/19

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