

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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> KAHULUI	<u>AIRPORT ID</u> PHOG	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 2	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> KAHULUI	<u>STATE</u> HI
<u>AIRPORT ELEVATION</u> 53	<u>TDZE</u> 53	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 2	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 11/13/2014	<u>MAG VAR</u> 11E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 JUNE 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1990

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>
KEIKI	IAF	ZOXUP		TF	FB	1.00	071.17	5.72	4500
GREHG	IAF	ZOXUP		TF	FB	1.00	313.38	6.74	4500
HOMAI	IF	KAWLA		TF	FB	1.00	204.70	2.70	4100
KAWLA		ZORTI		TF	FB	1.00	203.69	3.32	3200
ZORTI		WOREK		RF	FB	0.50	(2.47 NM RADIUS CW (CFDZM))	3.96	1800
WOREK		WASBA	PFAF	RF	FB	0.50	(1.83 NM RADIUS CW (CFFBJ))	2.83	1200
ZOXUP	IF	JOPOB		TF	FB	0.30	023.93	8.12	1600
JOPOB		WASBA		TF	FB	0.30	023.95	2.35	1200
WASBA	PFAF	RW02	MAP	TF	FO	0.30	023.96	3.41	
RW02	MAP	349 MSL		CA			023.96		
349 MSL		KRANE		DF	FO	1.00			3000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 3000 DIRECT KRANE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT WASBA
3. FAC: 023.96 PFAF: DIST PFAF TO MAP: DIST PFAF TO THLD:
4. MIN ALT: WASBA 1200
5. DIST TO THLD FROM OM: 3.41 MM: IM: 150 HAT: 296 HAT: 0.73 GS ANT:
6. MIN GP INCPT: 1200 GP ALT AT PFAF : WASBA 1200 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 62.3
8. MSA FROM: RW02 11200

PBN REQUIREMENTS NOTE:

RNP AR APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 14°C OR ABOVE 54°C.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 7/8 SM.
CHART SPEED ICON IN PLANVIEW AT HOMAI: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KAWLA: MAX 200 KIAS.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PLANVIEW NOTE ADJACENT TO HOMAI IF: RF REQUIRED.
CHART PLANVIEW NOTE AT HOMAI: RNP 0.50.
CHART PLANVIEW NOTE AT GREHG: RNP 0.30.
CHART PLANVIEW NOTE AT KEIKI: RNP 0.30.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 5000 AT HOMAI.
CHART MANDATORY 6000 AT GREHG.
CHART AT OR ABOVE 5000 AT KEIKI.
HOLD NE, RT, 203.96 INBOUND



MINIMUMS:

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

ALTERNATE: NA ☐ 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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	349	3/4	296	349	3/4	296	349	3/4	296	349	3/4	296			

CHANGES - REASONS

ADDED TERMINAL ROUTE KEIKI TO ZOXUP - CONNECT TO ARRIVAL.

ADDED TERMINAL ROUTE GREHG TO ZOXUP - CONNECT TO ARRIVAL.

DELETED TERMINAL ROUTE HOMAI TO WUNBU TO JOLUN TO ZEGUN TO COVSU - PROCEDURE REDESIGN TO REDUCE FLIGHT TRACK MILES AND TO MOVE ROUTE AWAY FROM RISING TERRAIN.

DELETED FIX COVSU, ADDED FIX WASBA - COVSU WAS MOVED MORE THAN 1 NM. NO ATC REQUEST TO KEEP FIX NAME.

ADDED TERMINAL ROUTE HOMAI TO KAWLA TO ZORTI TO WOREK TO WASBA - PROCEDURE REDESIGN TO REDUCE FLIGHT TRACK MILES AND TO MOVE ROUTE AWAY FROM RISING TERRAIN.

FINAL APPROACH COURSE CHANGED FROM 023.95 TO 023.96 - PER TARGETS BUILD.

LENGTH OF FINAL CHANGED FROM 4.66 NM TO 3.41 NM - PROCEDURE REDESIGN TO REDUCE FLIGHT TRACK MILES.

ALTITUDE AT WABSA (PFAF) CHANGED FROM 1600 TO 1200 - PER ATC/FPT/PBN REQUEST.

RNP 0.30 DA/HAT CHANGED FROM 395/341 ALL CATS TO 349/296 ALL CATS - MISSED APPROACH NO LONGER HAS OBSTACLE PENETRATIONS.

ADDED 20:1 IS CLEAR TO FORMS - IAW 8260.19H 8-6-7 G (3).

ADDED CHART PLANVIEW NOTE ADJACENT TO HOMAI IF: RF REQUIRED - IAW 8260.19H 4-6-10 H (2).

ADDED CHART PLANVIEW NOTE AT HOMAI: RNP 0.50 - IAW 8260.19H 4-6-10 F.

ADDED CHART PLANVIEW NOTE AT GREHG: RNP 0.30 - IAW 8260.19H 4-6-10 F.

ADDED CHART PLANVIEW NOTE AT KEIKI: RNP 0.30 - IAW 8260.19H 4-6-10 F.

CHART SPEED ICON IN PLANVIEW AT HOMAI: MAX 210 KIAS - IAW 8260.19H 4-6-10 G.

CHART SPEED ICON IN PLANVIEW AT KAWLA: MAX 200 KIAS - IAW 8260.19H 4-6-10 G.

ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - IAW 8260.19H 8-6-8 B. (1).

TOUCHDOWN ZONE ELEVATION CHANGED FROM 54 TO 53 - PER AIRNAV DATA.

05/02/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/20/18.

1. ADDED NOTE TO ADDITIONAL FLIGHT DATA: CHART MANDATORY 5000 AT HOMAI.

2. ADDED NOTE TO ADDITIONAL FLIGHT DATA: CHART MANDATORY 6000 AT GREHG.

3. ADDED NOTE TO ADDITIONAL FLIGHT DATA: CHART AT OR ABOVE 5000 AT KEIKI.

QUALITY
7
CHECKED

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZHN, HCF APP CON, OGG ATCT, AMGR, HAWAII AERO DIR, ATA

FLIGHT CHECKED BY
KENNETH EARL JACK

Digitally signed by
DONALD H LANIER
May 09, 2019

OFFICE
FIOG

DATE
04/24/2019

DEVELOPED BY
ROBERT GRIM

Digitally signed by
ROBERT GRIM
May 02, 2019

OFFICE
AJV-A431

DATE
12/20/2018

APPROVED BY
PATRICK MULQUEEN

Digitally signed by
DONALD H LANIER
May 09, 2019

OFFICE
AJV-A430

DATE

TITLE
MANAGER

