

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) 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.

AIRPORT ID OGG/PHOG	PROCEDURE NAME RNAV (GPS) RWY 20	ORIGINAL/AMENDMENT 2B	CITY KAHULUI	STATE HI		
AIRPORT ELEVATION 55	TDZE 27	SUPERSEDED RNAV (GPS) RWY 20	ORIGINAL/AMENDMENT 2A	DATED 07/16/2020	MAG VAR 11E	EPOCH YEAR 1990
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL/SUSPEND		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PLUMB		FOSLU		TF	FB	1.00	117.05	10.67	3000
SWEEP		POCGI		TF	FB	1.00	267.00	11.04	3000
FOSLU	IAF	WEPTU		TF	FB	1.00	117.00	8.00	2000
POCGI	IAF	WEPTU		TF	FB	1.00	266.93	8.00	2000
WEPTU	IF	JUDEZ		TF	FB	1.00	204.00	3.20	1700
JUDEZ	FAF	BIKDE/2.60 NM TO HUKLA		TF	FB	0.30	203.99	2.33	
BIKDE/2.60 NM TO HUKLA		HUKLA	MAP	TF	FO	0.30	203.99	2.60	
HUKLA	MAP	500 MSL		CA			203.99		500
500 MSL		NDREW		DF	FO	1.00			4300

MISSED APPROACH

MAP:

LNAV: HUKLA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 4300 DIRECT NDREW AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT WEPTU					
3. FAC: 203.99	FAF: JUDEZ		DIST FAF TO MAP: 4.93	DIST FAF TO THLD: 5.13	
4. MIN ALT: WEPTU 2000, JUDEZ 1700, BIKDE/2.60 NM TO HUKLA 940					
5. DIST TO THLD FROM OM: MM: IM:			150 HAT:	GS ANT: MM: IM:	
6. MIN GP INCPT: GP ALT AT FAF:					
7. GP ANGLE: 34:1 IS CLEAR 20:1 IS CLEAR			TCH:		
8. MSA FROM: RW20 11300					

QUALITY
13
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.
CHART PROFILE NOTE: VGSİ AND DESCENT ANGLES NOT COINCIDENT (VGSİ ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PLUMB ON V6-V22 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SWEEP ON V11 EASTBOUND.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 005.99 INBOUND.
CHART FAS OBST: 142 TREE (15-022841) 205429N/1562539W.
CHART VDP AT 0.76 NM TO HUKLA.
JUDEZ TO RW20: 3.00/55.0.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 1200-3, 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
LNAV MDA	400	1	373	400	1	373	400	1	373	400	1	373			
CIRCLING	520	1	465	620	1	565	800	2 1/4	745	1160	3	1105			

CHANGES - REASONS

1. GENERAL: AIRPORT ELEVATION CHANGED FROM 53 TO 55; TDZE CHANGED FROM 25 TO 27 – NEW AIRPORT SURVEY DATA.
2. ADDITIONAL FLIGHT DATA: FAS OBST CHANGED FROM “FAS OBST: 150 SHIP 205541N/1562424W” TO “CHART FAS OBST: 142 TREE (15-022841) 205429N/1562539W” – NEW SURVEYED OBSTACLES IN FINAL SEGMENT.
3. MINIMUMS: ALTERNATE MINIMUMS CHANGED FROM "STANDARD - CAT D 1100-3" TO "STANDARD - CAT C 800-2 1/4, CAT D 1200-3, NA WHEN LOCAL WEATHER NOT AVAILABLE" – CIRCLING CAT C VISIBILITY INCREASED.
4. MINIMUMS: LNAV MDA ALL HATS CHANGED FROM 375 TO 373 – TDZE CHANGED.
5. MINIMUMS: CIRCLING CAT A MDA/HAA CHANGED FROM MDA 500/HAA 447 TO MDA 520/HAA 465 – NEW DTED OBSTACLE.
6. MINIMUMS: CIRCLING CAT B HAA CHANGED FROM 567 TO 565 – AIRPORT ELEVATION CHANGED.
7. MINIMUMS: CIRCLING CAT C MDA/HAA CHANGED FROM MDA 740/HAA687 TO MDA 800/HAA 745 AND CAT C VIS CHANGED FROM 2 TO 2-1/4 – NEW MAN-MADE CONTROLLING OBSTACLE.
8. MINIMUMS: CIRCLING CAT D MDA/HAA CHANGED FROM MDA 1140/HAA 1087 TO MDA 1160/HAA 1105 – NEW DTED OBSTACLE.





FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
OGG/PHOG	RNAV (GPS) RWY 20	2B	KAHULUI	HI	55	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM PLUMB TO FOSLU

RNP 1.00 DISTANCE 10.67 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	210916.23N/1562959.74W	208	50	20	2C	1000				AT1792	3000
TERRAIN (WATER)	210448.00N/1562848.00W	0								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM SWEEP TO POCGI

RNP 1.00 DISTANCE 11.04 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	205928.19N/1561015.53W	208	50	20	2C	1000				AT1792	3000
TERRAIN (WATER)	205718.00N/1560627.00W	0								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
13
CHECKED

INITIAL

FROM

FOSLU

TO

WEPTU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	8.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	210326.83N/1562045.40W	208	50	20	2C	1000				AT792	2000
TERRAIN (WATER)	210430.00N/1562821.00W	0								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

POCGI

TO

WEPTU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	8.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	210057.11N/1561621.47W	208	50	20	2C	1000				AT792	2000
TERRAIN (WATER)	210057.00N/1561621.00W	0								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

WEPTU

TO

JUDEZ

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.20										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	205925.09N/1562121.60W	208	50	20	2C	500				AT992	1700
TERRAIN (WATER)	205931.00N/1562134.00W	0								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

JUDEZ

TO

BIKDE/2.60 NM TO HUKLA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.33										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	205709.00N/1562321.00W	208	50	20	2C	250				DG482	940

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

BIKDE/2.60 NM TO HUKLA

TO

HUKLA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.60		HUKLA		373						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (15-022841)	205429.16N/1562539.22W	142	20	3	1A	250					400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

HUKLA

TO

NDREW

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							302				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				4300
AAO	203336.00N/1563357.00W	1683	215	8	4B	1000				PR110	2800
TERRAIN	203333.00N/1563357.00W	1482 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	205206.00N/1562554.00W	1.30	465	218	215	8	4B	300			520
CATEGORY B											
TOWER (15-000253)	205155.88N/1562512.25W	1.81	565	313	20	3	1A	300			620
CATEGORY C											
UTILITY POLE	205051.74N/1562447.14W	2.84	745	444	250	50	4D	300		AC50	800
CATEGORY D											
AAO	205230.00N/1562157.00W	3.71	1105	860	215	8	4B	300			1160

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW20	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	204236.00N/1561515.00W	130	15.1	10207	215	8	4B	1000			11300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

OGG TOWER, HCF TRACON

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	OGG/PHOG	24	OGG/PHOG		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

REDUNDANT ALTIMETER SOURCES ON AIRPORT

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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<u>AIRPORT ID</u> OGG/PHOG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>AMDT NO.</u> 2B	<u>CITY</u> KAHULUI	<u>STATE</u> HI	<u>AIRPORT ELEVATION</u> 55	<u>FACILITY</u> RNAV
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>			
RW05 - MIRL (PCL), PAPI-4L (PCL)		NPI-G				
RW23 - MIRL (PCL)		NPI-G				
RW02 - MALSR (PCL), HIRL (PCL), PAPI-4R		PIR-G				
RW20 - HIRL (PCL), PAPI-4L (PCL)		PIR-G				

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 75.6
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☐	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	RNAV GPS RWY 20		
34:1			
77 TREE (15-022823) 205431.24N/1562518.14W (21.38)		67 TREE (15-022516) 205430.00N/1562521.18W (19.25)	
75 TREE (15-023410) 205431.67N/1562518.18W (18.4)		58 TREE (15-023204) 205428.77N/1562518.17W (8.43)	
59 TREE (15-023536) 205428.86N/1562517.43W (8.03)		58 TREE (15-022779) 205431.18N/1562520.50W (6.3)	
62 TREE (15-023372) 205429.85N/1562515.48W (5.51)		52 TREE (15-023012) 205429.58N/1562521.02W (5.02)	
61 TREE (15-022802) 205432.03N/1562518.86W (4.61)		52 TREE (15-023397) 205428.14N/1562518.16W (3.95)	
48 TREE (15-023415) 205428.64N/1562518.96W (0.01)			
<u>PENETRATIONS REMARKS:</u>			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



