

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR 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</u> KAHULUI	<u>AIRPORT ID</u> PHOG	<u>PROCEDURE NAME</u> VOR Z OR TACAN RWY 20	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> KAHULUI	<u>STATE</u> HI	
<u>AIRPORT ELEVATION</u> 53	<u>TDZE</u> 25	<u>SUPERSEDED</u> VOR/DME OR TACAN RWY 20	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 07/21/2016	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> OGG	<u>COORDINATES OF FACILITIES</u> 205423.30N / 1562515.42W	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<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
OGG VORTAC		MIKEY/4.96 DME					014.00	4.96	7000
PLUMB/OGG 20.87 DME	IAF	ULUAA/13.00 DME	NOPT				140.00	7.87 (OGG R-320)	3000
ULUAA/13.00 DME CW	IAF	CELIU/13.00 DME	NOPT				13.00 DME ARC		3000
JNKO/13.00 DME CCW	IAF	OPANA/13.00 DME	NOPT				13.00 DME ARC		7400
OPANA/13.00 DME CCW		CELIU/13.00 DME	NOPT				13.00 DME ARC		3000
CELIU/13.00 DME	IF	MIKEY/4.96 DME					194.00	8.04 (OGG R-014)	1700

MISSED APPROACH

MAP:

OGG VORTAC

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 ON OGG R-188 TO HARPO INT/OGG 16.71 DME THEN RIGHT TURN ON LNY R-095 TO KEIKI INT/17.00 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 014.00 **OUTBOUND** 3000 **FT WITHIN** 10 **MILES OF** MIKEY/4.96 DME (IAF)
- 2.
3. **FAC:** 194.00 **FAF:** MIKEY/4.96 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 5.13
4. **MIN ALT:** MIKEY/4.96 DME 1700
8. **MSA FROM:** OGG VORTAC 069-170 11300, 170-320 7000, 320-069 3400

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:



CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGG VORTAC AIRWAY RADIALS 337 CW 065.

ADDITIONAL FLIGHT DATA:

MIKEY TO RW20: 3.00/55.
CHART CIRCLING ICON.
CHART OGG R-320 AT ULUAA.
CHART OGG R-085 AT JNKOH.
CHART OGG R-069 AT OPANA.
CHART VDP AT 0.97 DME
DISTANCE VDP TO THLD 1.15 NM
FAS OBST: 208 SHIP 205714N/1562351W.
FAC CROSSES RWY C/L EXTENDED 5097 FT FROM THLD.
HOLD W, RT, 095.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1100-3

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-20	460	1	435	460	1	435	460	1 1/4	435	460	1 1/4	435			
CIRCLING	500	1	447	620	1	567	740	2	687	1140	3	1087			



CHANGES - REASONS

1. CHANGED ALTITUDE AT MIKEY FROM 1500 FT TO 1700 FT - AIR TRAFFIC REQUEST.
2. CHANGED S-20 MDA/HAT FROM 400/375 TO 460/435 - NEW CONTROLLING OBSTACLE.
3. CHANGED S-20 VISIBILITY CAT C FROM 1 SM TO 1 1/4 SM - 8260.3D TABLE 3-3-1.
4. CHANGED CIRCLING CAT A HAA FROM 446 TO 447, CAT B HAA FROM 566 TO 567, CAT C MDA/HAA FROM 780/726 TO 740/687, CAT D MDA/HAA FROM 1180/1126 TO 1140/1087 - NEW CONTROLLING OBSTACLES; APT ELEVATION CHANGED FROM 54 TO 53.
5. CHANGED CIRCLING VISIBILITY CAT C FROM 1 1/2 SM TO 2 SM, CAT D FROM 2 SM TO 3 SM - 8260.3D TABLE 3-3-7.
6. ADDED EQUIPMENT REQUIREMENTS NOTE: DME REQUIRED - DME REQUIRED TO RECEIVE FAF, IF, ARCS, AND MISSED APPROACH.
7. CHANGED MISSED APPROACH INSTRUCTIONS FROM: CLIMB TO 6000 VIA OGG VORTAC R-187 AND LNY R-090 TO DIPPS INT AND HOLD TO: CLIMB TO 5000 ON OGG R-188 TO HARPO INT/OGG 16.71 DME THEN RIGHT TURN ON LNY R-095 TO KEIKI INT/17.00 DME AND HOLD - OLD MA REQUIRED C-I-H AND WITH C-I-H THE 40:1 SURFACE PENETRATED. THIS REQUIRED COMPLETE DESIGN OF MISSED APPROACH.
8. REMOVED CHART NOTE: WHEN TOWER CLOSED, PROCEDURE NA EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICES - INCORPORATING P-NOTAM 6/0377, LOCAL WEATHER IS PROVIDED BY ASOS ON SERVICE A AND DOES NOT REQUIRE A PUBLISHED BACK-UP ALTIMETER SOURCE AND NO NOTES ARE REQUIRED.
9. CHANGED ALTERNATE MINIMUMS FROM NA WHEN TOWER CLOSED, EXCEPT FOR OPERATIONS WITH APPROVED WEATHER REPORTING SERVICE TO STANDARD EXCEPT CAT D 1100-3 - 8260.3D 3-4-1.
10. CHANGED ALL REFERENCES OF OGG VORTAC R-320/13.00 DME TO ULUAA/13.00 DME - FPT REQUEST.
11. CHANGED ALL REFERENCES OF OGG VORTAC R-014/13.00 DME TO CELIU/13.00 DME - FPT REQUEST.
12. CHANGED ALL REFERENCES OF OGG VORTAC R-085/13.00 DME TO JNKOH/13.00 DME - FPT REQUEST.
13. CHANGED MSA ALTITUDES 069-170 FROM 11100 FT TO 11300 FT, 170-320 FROM 6800 FT TO 7000 FT, 320-069 FROM 3200 FT TO 3400 FT - NEW CONTROLLING OBSTACLES.
14. ADDED CHART VDP AT 0.97 DME; DISTANCE VDP TO THLD 1.15 NM TO ADDITIONAL FLIGHT DATA - VDP REQUIRED, 8260.3D 2-6-5.
15. ADDED CHART OGG R-320 AT ULUAA TO ADDITIONAL FLIGHT DATA - REQUIRED FOR CHARTING.
16. ADDED CHART OGG R-085 AT JNKOH TO ADDITIONAL FLIGHT DATA - REQUIRED FOR CHARTING.
17. ADDED CHART OGG R-069 AT OPANA TO ADDITIONAL FLIGHT DATA - REQUIRED FOR CHARTING.
18. CHANGED ALL REFERENCES OF OGG VORTAC R-070/13.00DME AND OPANA/OGG VORTAC R069/13.00 DME TO OPANA/13.00 DME - FPT REQUEST.
19. FAC CROSSES RWY C/L EXTENDED 5027 FT FROM THLD CHANGED TO FAC CROSSES RWY C/L EXTENDED 5097 FT FROM THLD IN ADDITIONAL FLIGHT DATA - CALCULATION USING RECIPROCAL OF RUNWAY TRUE BEARING AND OGG VOTRAC R-014.
20. CHANGED PROCEDURE ID FROM VOR/DME OR TACAN RWY 20 TO VOR Z OR TACAN RWY 20 - 8260.3D 1-6-4.
21. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - APPLIED EXPANDED CIRCLING AREA CRITERIA.
22. CHANGED ALL REFERENCE FOR MIKEY (FAF) FROM 5.00 DME TO 4.96 DME - MIKEY RELOCATED TO ACHIEVE VDA SAME AS VGSI.
23. CHANGED INTERMEDIATE SEGMENT DISTANCE FROM 8.00 TO 8.04 NM - RELOCATED FAF.
24. CHANGED AIRPORT ELEVATION FROM 54 TO 53 - NEW AIRNAV DATA.
25. LOWERED ARC SEGMENT JNKOH/R-085/13 DME TO OPANA/R-069/13 DME FROM 7400 TO 5000 - OPANA LOCATED ON V11 WITH MEA 5000. THIS ALLOWS AIRCRAFT TO START THE APPROACH AT OPANA AT MEA.
26. CHANGED DISTANCE FAF TO THLD FROM 5.17 TO 5.13 - RELOCATED FAF
27. CHANGED FAS OBST FROM 104 FT TREE 205432/1562529 TO 208 SHIP 205714N/1562351W - FPT REQUEST.
28. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OGG VORTAC AIRWAY RADIALS 337 CW 065 - 8260.3D PARA 2-3-1.
29. ADDED PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE $\frac{1}{2}$ /TCH $\frac{1}{2}$) - 8269019H PARA 8-6-9M(2).
30. ADDED MIKEY TO RW20: 3.00/55 TO ADDITIONAL FIGHT DATA - 8260-19H 8-6-10P.
31. CHANGED ALL REFERENCE OF PLUMB/OGG VORTAC R320/20.87 TO PLUMB/OGG 20.87 DME - REVISED CRITERIA.
32. CHANGED FEEDER SEGMENT OGG VORTAC TO MIKEY DISTANCE FROM 5.00 TO 4.96 - RELOCATED (FAF) MIKEY.

PDF EDIT:

ADDED SEMICOLON AFTER CHART VDP AT 0.97 DME IN ADDITIONAL FLIGHT DATA PER 8260.19H 8-6-10.N.

04/08/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/18/2018.

1. UPDATED CHANGE 4 TO READ: CHANGED CIRCLING CAT A HAA FROM 446 TO 447, CAT B HAA FROM 566 TO 567, CAT C MDA/HAA FROM 780/726 TO 740/687, CAT D MDA/HAA FROM 1180/1126 TO 1140/1087 - REFERENCE MOST CURRENT MINIMUMS.

07/30/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/18/2018.

1. RETAINED MINIMUM ALTITUDE OF 7400 FROM JNKOH/R-085/13 DME TO OPANA/R-069/13 DME.



AIRPORT
KAHULUI

AIRPORT ID
PHOG

PROCEDURE NAME
VOR Z OR TACAN RWY 20

ORIGINAL/AMENDMENT
1

CITY
KAHULUI

STATE
HI

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** HCF, MAUI ATCT

Digitally signed by

FLIGHT CHECKED BY
KIM MARK BROWN

DAVID DANNER
Aug 02, 2019

OFFICE
FIOG

DATE
07/16/2019

DEVELOPED BY
DAVID DANNER (ANTHONY CAPPABIANCO)

Digitally signed by
DAVID DANNER
Aug 02, 2019

OFFICE
AJV-5421

DATE
10/18/2018

APPROVED BY
JULIE MORGAN

Digitally signed by
DAVID DANNER
Aug 02, 2019

OFFICE
AJV-5420

DATE

TITLE
MANAGER

QUALITY
7
CHECKED