U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

NDB STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
OGG VORTAC	VYI NDB	207.44 / 1.96	7100
VYI NDB	KITPE INT/OGG VORTAC 7.85 DME/RADAR	184.96 / 6.00	7100
MAKEN INT/UPP 39.59 DME (IAF)	IGUVE INT/UPP 42.89 DME (NOPT)	293.95 / 3.30 (UPP R-294)	5500
IGUVE INT/UPP 42.89 DME	HARPO INT/LNY 26.55 DME	293.95 / 3.26 (LNY R-294)	5000
CAMPS INT/LNY 21.44 DME (IAF)	HARPO INT/LNY 26.55 DME (NOPT)	095.00 / 5.11 (LNY R-095) (VYI LBRG-193)	5000
HARPO INT/LNY 26.55 DME (IF)	KITPE INT/OGG VORTAC 7.85 DME/RADAR	004.94 / 8.88 (VYI BRG-185)	2200

MISSED APPROACH

MAP: VYI NDB

CLIMB TO 2200 ON VYI NDB BRG-004.96 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 293.85 AND ON OGG VORTAC R-320 TO PLUMB INT/OGG 20.87 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

ADDITIONAL FLIGHT DATA:

HOLD NW, LT, 140.00 INBOUND.
CHART FAS OBST: 335 POLE 205136N/1562534W
FAS OBST: 499 AAO 204924N/1562603W
CHART 6200 PRIOR TO KITPE IN PROFILE.
KITPE TO RW02: 2.98/65.
CHART: UPP 46.14 DME AT HARPO.
CHART: OGG 16.71 DME AT HARPO.
FAC CROSSES RWY C/L EXTENDED 3813 FROM THLD.

1. PT **R** SIDE OF COURSE **184.96** OUTBOUND **4500** FT WITHIN **12** MILES OF **KITPE** (IAF)
2.
3. FAC **004.96** FAF **KITPE INT/OGG VORTAC 7.85 DME/RADAR** DIST FAF TO MAP **6.00** THLD **6.58**
4. MIN. ALT **KITPE 2200, ULECU/OGG VORTAC 3.47 DME 800**
8. MSA FROM: **VYI NDB 080-170 11300, 170-300 7000, 300-080 3300**

MAG VAR: **11E** EPOCH YEAR: **1990**

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | **STANDARD @**

CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-2	800	3/4	746	800	1	746	800	2	746	800	2	746			
CIRCLING	800	1	746	800	1 1/4	746	800	2 1/4	746	800	2 1/2	746			
ULECU FIX DME MINIMUMS															
S-2	640	3/4	586	640	3/4	586	640	1 3/4	586	640	1 3/4	586			
CIRCLING	640	1	586	640	1	586	640	1 3/4	586	640	2	586			

NOTES:

CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 05 NA AT NIGHT.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-2 CATS C AND D.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

@ CAT C 800-2 1/4, CAT D 800-2 1/2
@ NA WHEN CONTROL TOWER CLOSED.

QUALITY CHECKED 5

CITY AND STATE	ELEVATION: 54 THRE: 54	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
KAHULUI, HI	AIRPORT NAME: KAHULUI	VYI	NDB RWY 2, ORIG	AMDT NONE
				DATE

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[X] YES [ ] NO	SEE CHANGES	ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] HCF APP CON, OGG ATCT

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: PETE GETZ (ANKUR VERMA)	FIFO AJV-354	DATE: 11/21/2011
APPROVED BY		
NAME: DEZ SILAGYI MANAGER	FIFO AJV-354	DATE:

CHANGES:

1. TERMINAL ROUTES SECTION OGG TO VYI ALTITUDE CHANGED FROM 7000 TO 7100.
2. TERMINAL ROUTES SECTION CHANGED VYI TO KIHEI TO VYI TO KITPE.
3. TERMINAL ROUTES SECTION VYI TO KITPE DISTANCE CHANGED FROM 5.41 TO TO 6.00.
4. TERMINAL ROUTES SECTION MAKEN TO HARPO ADDED SDF IGUVE.
5. TERMINAL ROUTES SECTION CAMPS TO HARPO CHANGED ALTITUDE FROM 4000 TO 5000.
6. TERMINAL ROUTES SECTION CHANGED HARPO TO KIHEI TO HARPO TO KITPE.
7. TERMINAL ROUTES SECTION CHANGED HARPO TO KITPE DISTANCE/ALTITUDE FROM 9.47/2400 TO 8.88/2200.
8. PROFILE SECTION CHANGED PT ALTITUDE/LENGTH FROM 3200/10 TO 4500/12.
9. PROFILE SECTION LINE 2 DELETED MAINTAIN 5600 OR ABOVE UNTIL ESTABLISHED OUTBOUND FOR PROCEDURE TURN.
10. PROFILE SECTION LINE 3 CHANGED FAF FROM KIHEI TO KITPE INT/OGG 7.85 DME/RADAR.
11. PROFILE SECTION LINE 3 DIST FAF TO MAP/THLD CHANGED FROM /5.99 TO 6.00/6.58.
12. PROFILE SECTION LINE 4 CHANGED FROM KIHEI 2400 TO KITPE 2200, ULECU/OGG VORTAC 3.47 DME 800.
13. PROFILE SECTION LINE 8 CHANGED INCREASED ALTITUDES FROM 11100/6800/6000 TO 11300/7000/3300.
14. MINIMUMS SECTION COMPLETELY CHANGED FROM SINGLE SET MINIMA TO DUAL MINIMA SET.

SEE 8260-10

REASONS:

1, 13, 22. PER CURRENT EVALUATION.
2, 3, 6. DUE TO NEW FAF BEING ESTABLISHED IAW N JO 7400.27.
4. TO MATCH CAMPS TO HARPO ALTITUDE.
5. TO MATCH IGUVE TO HARPO ALTITUDE.
7. DISTANCE CHANGED DUE TO NEW FAF BEING ESTABLISHED IAW N JO 7400.28 AND LOWERED ALTITUDE TO MATCH VDA WITH VGSI.
8. PER CURRENT EVALUATION AND 8260.3B PAR 234D.
9. NOT REQUIRED PER 8260.19D.
10. FAF CHANGED TO INTERSECTION FIX TO ALLOW FOR DME MINIMA SET; THIS CAUSED PROCEDURE NAME TO CHANGE AND IAW N JO 7400.28.
11. FAF MOVED BACK FOR LNY VORTAC CROSSING RECEPTION AND TO MATCH VDA WITH VGSI.
12. ADDED DME FIX MINIMA TO LOWER MDA PER TERPS EVALUATION.
14. PER DESIGN CHANGE; ADDED DME FIX MINIMA PER TERPS EVALUATION.
15. NO LONGER APPLICABLE.
16. PER 8260.19D PAR 854M2(H), MEMO SBJ REVISED DOCUMENTATION GUIDANCE FOR REQUIRED NAVIGATION APPROACH PROCEDURES, PAR 853B(4)/(5).
17. MISSED APPROACH REDESIGNED TO TAKE AIRPLANES BACK TO THE ENROUTE STRUCTURE.

SEE 8260-10

QUALITY CHECKED 5

Bearings, headings, courses, 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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE	ELEVATION: 54 THRE: 54	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
KAHULUI, HI	AIRPORT NAME: KAHULUI	VYI	NDB RWY 2, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.
15. NOTES SECTION REMOVED WHEN CONTROL TOWER CLOSED, PROCEDURE NA EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICE. 16. NOTES SECTION ADDED WHEN VGSI INOP, CIRCLING RWY 05 NA AT NIGHT, VISIBILITY REDUCTION BY HELICOPTERS NA, CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN CONTROL TOWER CLOSED. 17. MISSED APPROACH SECTION CHANGED FROM CLIMB TO 400 VIA 005 BRG FROM VYI NDB AND HOLD TO CLIMB TO 2200 ON VYI NDB BRG-004.96 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 293.85 AND ON OGG VORTAC R-320 TO PLUMB INT/OGG 20.87 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. 18. ADDITIONAL FLIGHT DATA SECTION HOLDING PATTERN CHANGED FROM 184.96 INBOUND TO 140 INBOUND. 19. ADDITIONAL FLIGHT DATA SECTION ADDED NOTE CHART 6200 PRIOR TO KITPE IN PROFILE. 20. ADDITIONAL FLIGHT DATA SECTION ADDED KITPE TO RW02: 2.98/65. 21. ADDITIONAL FLIGHT DATA SECTION ADDED UPP/OGG DME NOTES. 22. ADDITIONAL FLIGHT DATA SECTION CHANGED DISTANCE FAC CROSSES RWY C/L EXTENDED FROM THLD FROM 3804 TO 3813. 23. NOTES SECTION ADDED INOPERATIVE TABLE DOES NOT APPLY TO S-2 CATS C AND D.
NDB: 205250.75N / 1562633.55W, NOS AOC SURVEY, AND MILITARY SURVEYS

REASONS:

REASONS CONT.
18. DUE TO CLEARANCE LIMIT CHANGE FROM VYI NDB TO PLUMB INT.
19. DUE TO ENTRY OBSTACLE MANDATING ALTITUDE.
20. PER 8260.19D PAR 855 N(2).
21. TO ENSURE ACCURATE CHARTING THAT ALLOWS USERS TO FLY USING THE CORRECT DME NEEDED.
23. PER 8260.19D PAR 854M(3)(E).

QUALITY 5 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	OGG VORTAC	VYI NDB	1. AAO	205506.00N/1563427.00W	4699 (4E)	2000	AT401	7100
			2. TERRAIN	205139.00N/1562139.00W	808 (800)		AS1500	2300
FEEDER	VYI NDB	KITPE INT/OGG	3. AAO	205332.10N/1563516.30W	5988 (4E)	2000	SA-900	7100
		VORTAC 7.85	4. TERRAIN	204957.00N/1563215.00W	2855 (2900)		AS1500	4400
		DME/RADAR						
INITIAL	MAKEN INT/UPP	IGUVE INT/UPP	5. AAO	203927.00N/1562112.00W	5204 (4E)	1000	SA-997 PR274	5500
	39.59 DME	42.89 DME	6. TERRAIN	203800.00N/1562312.00W	2661 (2700)		AS1500	4200
INITIAL	IGUVE INT/UPP	HARPO INT/LNY	7. AAO	203912.00N/1562433.00W	1539 (4E)	1000	AT2461	5000
	42.89 DME	26.55 DME	8. TERRAIN	203957.00N/1562542.00W	470 (500)		AS1500	2000
INITIAL	CAMPS INT/LNY	HARPO INT/LNY	9. AAO	203518.00N/1563412.00W	1011 (4E)	1000	AT2989	5000
	21.44 DME	26.55 DME	10. TERRAIN	203518.00N/1563412.00W	811 (800)		AS1500	2300
INTERMEDIATE	HARPO INT/LNY	KITPE INT/OGG	11. AAO	203821.00N/1562500.00W	1106 (4E)	500	DG594	2200
	26.55 DME	VORTAC 7.85	12. TERRAIN	203812.00N/1562657.00W	342 (300)		AS1500	1800
		DME/RADAR						
ENTRY ZONE			17. AAO	205327.00N/1563509.00W	5965 (4E)	1000	SA-791	6200
			18. TERRAIN	205054.00N/1563324.00W	4525 (4500)		AS1500	6000
2. PROCEDURE TURN	KITPE	12 NM	19. AAO	203909.00N/1562151.00W	4475 (4E)	1000	SA-998	4500
			20. TERRAIN	204815.00N/1563248.00W	2054 (2100)		AS1500	3600
3. MISSED APPROACH — MAP:	VYI NDB	PLUMB INT/OGG				ASC		5000
		20.87 DME	21. AAO	205733.00N/1563300.00W	2002 (4E)	1000		3100
ELEV:	340		22. TERRAIN	205733.00N/1563300.00W	1802 (1800)		AS1500	3300
			23. TOWER (15-000336)	205350.11N/1562534.18W	196 (1A)	300	SI / SI	800 / 640
			24. TREE (POGG0095)	205153.37N/1562554.87W	252 (1A)	300	SI / SI	800 / 640
			25. TOWER (15-000253)	205155.88N/1562512.25W	313 (1A)	300	SI / SI	800 / 640
			16. POLE (15-000259)	205136.43N/1562533.94W	335 (1A)	300	SI	800 / 640

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	
CATEGORY A	1.3 NM	350	746 / 586	
CATEGORY B	1.5 NM	450	746 / 586	
CATEGORY C	1.7 NM	450	746 / 586	
CATEGORY D	2.3 NM	550	746 / 586	
CATEGORY E	4.5 NM	550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: VYI NDB

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
080-170	AAO	124/ 14.4	10223 (4E)	11300	300-080	AAO	090/ 08.7	2260 (4E)	3300
170-300	AAO	264/ 08.2	5988 (4E)	7000					

CITY AND STATE	ELEVATION: 54 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
KAHULUI, HI	KAHULUI	VYI	NDB RWY 2, ORIG	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
HCF ARTCC OGG TOWER	N W S	OTHER: ASOS	SOURCE: PHOG
	F A A		DISTANCE:
	A / C		HOURS REMOTE OPERATION: 24
SATISFACTORY ON: X V H F X U H F H F	LOCATION: PHOG		ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID: VYI NDB	
	MONITOR POINT: OGG ATCT	
	HRS OPTN: CAT 1	17 (1600Z-0900Z)
	HRS OPTN: CAT 3	7 (0900Z-1600Z)
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 02 (PCL)
	X	HIRL 02 (PCL), 20 (PCL)
	X	MIRL 05 (PCL), 23 (PCL)
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 20 VASI-4L 05, 02
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 02, 20
	INSTRUMENT	NPI-G 05, 23
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD 3813 FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: PETE GETZ (ANKUR VERMA)	DATE: 11/21/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

VDP NOT ESTABLISHED - FACILITY DOES NOT HAVE DME.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
RWY 02 34:1 73 TREE (POGG00008)
205316.55N/1562618.55W (2.35)

RWY 05 20:1 53 TREE (PHOGG0047)
205352.18N/1562622.16W (4.46)

VGSI DATA: 3.00/65.

SURVEY TYPE: PIR 03/05/1994 NGS.

VEGETATION HEIGHT: 30 FT PER WESTERN FPT.

FEEDER SEGMENT VYI TO KITPE IS PRECIPITOUS; ROC REDUCTIONS NOT AUTHORIZED/2000 FT ROC REQUIRED.

FEEDER SEGMENT OGG TO KITPE IS PRECIPITOUS; ROC REDUCTIONS NOT AUTHORIZED/2000 FT ROC REQUIRED.

VYI NDB UNMONITORED WHEN CONTROL TOWER CLOSED.

SUITABLE BACKUP SOURCE FOR CONTINGENCY PURPOSES:
SOURCE: PHJH
DISTANCE: 14.16NM
SERVICE-A: YES
ADJUSTMENT: 61

LIGHT CREDIT NOT TAKEN FOR CATS C/D DUE TO INADEQUATE COVERAGE.

ALTERNATE MISSED APPROACH NOT DEVELOPED PER WESTERN FPT AND HONOLULU CONTROL FACILITY (HCF).

SEE ATTACHED AIRSPACE LETTER.

SPECIALIST DESIGN NOTES:
1. PROCEDURE NAME CHANGED DUE TO FAF MAKEUP.
2. FAF MAKEUP CHANGED TO ALLOW NON DME USERS TO FLY PROCEDURE.
3. FAF LOCATION MOVED BACK AND ALTITUDE LOWERED TO MATCH VDA WITH VGSI AND TO GAIN CROSSING RECEPTION FROM LNY VORTAC.
4. DME MINIMUMS ESTABLISHED TO MAINTAIN AMDT 2A MINIMA.

5. ALL FIXES USED ON PROCEDURE CHANGED TO INTERSECTIONS TO ALLOW NON DME USERS TO FLY THEM.

QUALITY 5 CHECK

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE: PT	12 NM	KITPE INT/OGG	13. AAO	203812.00N/1562657.00W	542 (4E)	500	DG1158	2200
		VORTAC 7.85	14. TERRAIN	204633.00N/1562633.00W	197 (200)		AS1500	1700
		DME/RADAR						
FINAL	KITPE INT/OGG	ULECU/OGG	15. AAO	204924.00N/1562603.00W	499 (2C)	300		800
	VORTAC 7.85	3.47 DME						
	DME/RADAR							
FINAL: STEPDOWN	ULECU/OGG 3.47	VYI NDB	16. POLE (15-000259)	205136.43N/1562533.94W	335 (1A)	300		640
	DME							
3. MISSED APPROACH MAP:								
ELEV:								

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.		
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	
CATEGORY B	1.5 NM		450		
CATEGORY C	1.7 NM		450		
CATEGORY D	2.3 NM		550		
CATEGORY E	4.5 NM		550		

5. MINIMUM SAFE ALTITUDES PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
KAHULUI, HI	ELEVATION: 54 AIRPORT NAME: KAHULUI	VYI	NDB RWY 2, ORIG	AWP

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: CAMPS **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 203954.94N/1563609.39W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	KAHULUI	I-OGG	LOC/DME		203.97	214.97	17.53	17.57		3000	4500
2	LANAI	LNY	VORTAC	H	095.00	106.00	21.44	21.44		1000	17500
3	MAUI	OGG	VORTAC	H	204.34	215.34	17.67	17.67		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-OGG	LOC/DME	R-024	18	3000	14000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	LNY	VORTAC	095.00	095.00	L	1		5000	14000	6	11
2	SW	OGG	VORTAC	204.28	024.28	R	1		3000	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	203354.00N/1563512.00W	1641	4E
2	200	AAO	203333.10N/1563349.90W	1709	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AIR TRAFFIC.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
LANAI (FAC 2) AND MAUI (FAC 3) USED TO ESTABLISH FIX COORDINATES
I-OGG DME COORDINATES: 205418.74N-1562523.97W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2	2	1			(US)
EN ROUTE	V21	2	1			(US)
IAP	ILS OR LOC RWY 2	1, 2	1, 2	PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2	2, 3		PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 2			PHOG	KAHULUI	HI (US)
STAR	CAMPS	2, 3	1	PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
ADDED REMARK TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 11/23/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HARPO **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 203829.35N/1563055.28W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LANAI	LNY	VORTAC	H	095.00	106.00	26.55	26.55		5000	45000
2	MAUI	OGG	VORTAC	H	187.54	198.54	16.71	16.71		6000	45000
3	VALLEY ISLAND	VYI	NDB	MH	184.96	195.96		14.88		6400	45000
4	UPOLU POINT	UPP	VORTAC	H	293.95	304.95	46.14	46.14		5000	45000
5	KONA	KOA	VORTAC	H	323.41	334.41	61.30	61.30		5500	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
UPP	VORTAC	R-294	47	5000	17500
KOA	VORTAC	R-323	62	5500	17500

FIX RESTRICTIONS:
MCA V21 8100 EASTBOUND

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	275.00	095.00	R		4	6000	8000	6	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	203333.10N/1563349.90W	1709	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 12000.

REMARKS:
LANAI (FAC 1) AND MAUI (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BEACH	1, 2		PHOG	KAHULUI	HI (US)
EN ROUTE	V1	1, 2, 4				(US)
EN ROUTE	V17	1, 2				(US)
EN ROUTE	V2	1, 2, 4				(US)
EN ROUTE	V21	1, 2				(US)
IAP	ILS OR LOC RWY 2	1		PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2	1, 3, 4		PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 20		1	PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) Y RWY 2			PHOG	KAHULUI	HI (US)
STAR	CAMPS	1, 2, 4		PHOG	KAHULUI	HI (US)
STAR	HAIKU (RNAV)			PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
FIX USE UPDATED.
ADDED FAC 4 DME DISTANCE 46.14 NM.
CHANGED PAT 1 CONTROLLING OBST DUE TO CURRENT EVALUATION; DOES NOT AFFECT MINIMUM HOLDING ALTITUDE.
DELETED PAT 1 PRECIPITOUS TERRAIN ADJUSTMENT DUE TO CURRENT EVALUATION.
ADDED FACILITY REMARK TO ESTABLISH FIX COORDINATES.
ADDED UPP ESV.

DEVELOPED BY: **DATE:** 11/22/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

QUALITY CHECKED 5

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: IGUVE **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 203637.55N/1562804.22W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	UPOLU POINT	UPP	VORTAC	H	293.95	304.95	42.89	42.89		5500	17500
2	MAUI	OGG	VORTAC	H	177.47	188.47		17.89		5500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
UPP	VORTAC	R-294	43	5500	17500

REMARKS:
UPOLU POINT (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 2	1, 2		PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 11/21/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: OGG ATCT, HCF APP CON
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KITPE **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 204703.36N/1562819.19W **TYPE:** RADAR, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	VALLEY ISLAND	VYI	NDB	MH	184.96	195.96		6.00	36456	2200	17500
2	LANAI	LNY	VORTAC	H	076.49	087.49		27.96	169900	2200	17500
3	MAUI	OGG	VORTAC	H	190.45	201.45	7.85	7.85	47681	2200	17500

REMARKS:
VALLEY ISLAND (FAC 1) AND LANAI (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 2	1, 2		PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
THIS REPLACES PREVIOUS FIX KIHEI; FIX RENAMED DUE TO FIX RELOCATION IN EXCESS OF 1NM PER N JO 7400.28.

DEVELOPED BY: **DATE:** 11/18/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MAKEN **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 203444.22N/1562510.66W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	UPOLU POINT	UPP	VORTAC	H	293.95	304.95	39.59	39.59		5000	45000
2	MAUI	OGG	VORTAC	H	168.78	179.78	19.58	19.58		5000	45000
3	KONA	KOA	VORTAC	H	326.74	337.74	55.68	55.68		6000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
KOA	VORTAC	R-327	56	6000	14500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
KONA (FAC 3) AND MAUI (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V1	1, 2				(US)
EN ROUTE	V2	1, 2				(US)
EN ROUTE	V5	1, 2, 3				(US)
IAP	NDB RWY 02	1, 2		PHOG	KAHULUI	HI (US)
STAR	CAMPS	1, 2, 3		PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
ADDED REMARK TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 11/23/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PLUMB **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 211242.30N/1563605.35W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MOLOKAI	MKK	VORTAC	H	071.00	082.00	32.04	32.04		5000	17500
2	MAUI	OGG	VORTAC	H	320.00	331.00	20.87	20.87		5000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	OGG	VORTAC	320.00	140.00	L	1		5000	6000	6	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	211302.60N/1563607.15W	208	2C
1	310	AAO	211000.00N/1564606.00W	1818	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 PROVIDE SEPARATION FROM DEPARTURE/ARRIVAL ROUTES

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	NDB RWY 2	PHOG	KAHULUI	HI (US)

REMARKS:
MOLOKAI (FAC 1) AND MAUI (FAC 2) USED TO ESTABLISH FIX COORDINATES
CLEARANCE LIMIT FOR NON RADAR OPERATIONS (HNL CENTER).
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V22					(US)
EN ROUTE	V6		1			(US)
IAP	LOC/DME BC RWY 20	2		PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2	1, 2	1	PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 20			PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 23			PHOG	KAHULUI	HI (US)
IAP	VOR / DME OR TACAN RWY 20	2		PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
ADDED REMARK TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 11/23/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ULECU **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 205119.51N/1562701.31W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	VALLEY ISLAND	VYI	NDB	MH	184.96	195.96		1.58		700	17500
2	MAUI	OGG	VORTAC	H	197.44	208.44	3.47	3.47		700	17500

REMARKS:
MAUI (FAC 2) AND VALLEY ISLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 2	1, 2		PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 11/16/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UPOLU POINT VORTAC **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 201201.95N/1555035.76W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	UPOLU POINT	UPP	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V16 5800 EASTBOUND

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	UPP	VORTAC	338.00	158.00	R	1		8000	14000	8	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	200654.00N/1554548.00W	4863	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	232

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PAT 1 ATC REQUEST.
PAT 1 CONTROLLING OBSTACLE IN SECONDARY; PRIMARY EQUIVALENT 4012 FT.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PARIS (OBSTACLE)			PHTO	HILO	HI (US)
DP	KEAHI			PHNL	HONOLULU	HI (US)
DP	MOLOKAI			PHNL	HONOLULU	HI (US)
DP	BEACH			PHOG	KAHULUI	HI (US)
DP	AMERY			PHKO	KAILUA-KONA	HI (US)
EN ROUTE	V11					(US)
EN ROUTE	V16					(US)
EN ROUTE	V2					(US)
EN ROUTE	V23					(US)
IAP	VOR/DME OR TACAN-A			PHTO	HILO	HI (US)
IAP	ILS OR LOC RWY 2			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2			PHOG	KAHULUI	HI (US)
IAP	LOC BC RWY 35			PHKO	KAILUA-KONA	HI (US)
IAP	VOR OR TACAN RWY 35			PHKO	KAILUA-KONA	HI (US)
IAP	VOR/DME OR TACAN RWY 17			PHKO	KAILUA-KONA	HI (US)
IAP	ILS OR LOC/DME RWY 17			PHKO	KAILUA/KONA	HI (US)
IAP	RNAV (GPS) Y RWY 17			PHKO	KAILUA/KONA	HI (US)
IAP	RNAV (RNP) Z RWY 17			PHKO	KAILUA/KONA	HI (US)
IAP	VOR/DME RWY 4			PHMU	KAMUELA	HI (US)
IAP	VOR/DME-A			PHMU	KAMUELA	HI (US)
STAR	JULLE			PHNL	HONOLULU	HI (US)
STAR	MAGGI			PHNL	HONOLULU	HI (US)
STAR	SAKKI			PHNL	HONOLULU	HI (US)
STAR	CAMPS			PHOG	KAHULUI	HI (US)
STAR	KAYAK			PHKO	KAILUA-KONA	HI (US)
STAR	VECKI			PHKO	KAILUA-KONA	HI (US)

REQUIRED CHARTING: STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: BOTH

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
CHANGED PAT 1 CONTROLLING OBST FROM AAO 201201.95N/1555035.76W 5900 FT 4E TO AAO 200654.00N/1554548.00W 4863 FT 4E.
CHANGED PAT 1 AIRSPEED FROM 200 TO 230 KTS.
ADDED PRECIPITOUS TERRAIN 232 FT.
ADDED PRIMARY EQUIVALENT REMARK.

QUALITY 5 CHECKED

DEVELOPED BY:	**DATE:** 11/16/2011	**OFFICE:** AJV-354	**NAME:** PETER GETZ (ANKUR VERMA)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, KONA ATCT
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VALLEY ISLAND NDB **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 205250.75N/1562633.55W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	VALLEY ISLAND	VYI	NDB	MH							45000

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 2			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2			PHOG	KAHULUI	HI (US)
IAP	SMOKE STACK VISUAL RWY 2			PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
DELETED REMARK UNMONITORED WHEN OGG ATCT CLOSED.
DELETED PAT 1/2/3; UNUSED.

DEVELOPED BY: **DATE:** 11/16/2011 **OFFICE:** AJV-354 **NAME:** PETER GETZ (ANKUR VERMA)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: OGG ATCT, HCF APP CON
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD INFO ONLY

NAME: LANAI VORTAC **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 204552.20N/1565808.00W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LANAI	LNY	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	LNY	VORTAC	278.00	098.00	R	1		4000	14000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	204845.00N/1565224.00W	3573	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	101

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN BELOW 4500; UNRESTRICTED ABOVE.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 CONTROLLING OBSTACLE IN SECONDARY, PRIME EQUIVALENT 2648.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HONOLULU (OBSTACLE)			PHNL	HONOLULU	HI (US)
DP	KEAHI			PHNL	HONOLULU	HI (US)
DP	OPIHI			PHNL	HONOLULU	HI (US)
DP	PALAY			PHNL	HONOLULU	HI (US)
DP	BEACH			PHOG	KAHULUI	HI (US)
DP	MAUI			PHOG	KAHULUI	HI (US)
DP	HAPAI			PHMK	KAUNAKAKAI	HI (US)
DP	TAKE-OFF MINIMUMS			PHNY	LANAI CITY	HI (US)
EN ROUTE	V16					(US)
EN ROUTE	V21					(US)
EN ROUTE	V24					(US)
EN ROUTE	V7					(US)
EN ROUTE	V2					HI (US)
IAP	ILS RWY 08L			PHNL	HONOLULU	HI (US)
IAP	HI-NDB RWY 20			PHOG	KAHULUI	HI (US)
IAP	HI-VOR RWY 20			PHOG	KAHULUI	HI (US)
IAP	ILS OR LOC RWY 2			PHOG	KAHULUI	HI (US)
IAP	LOC/DME BC RWY 20			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 02			PHOG	KAHULUI	HI (US)
IAP	SMOKE STACK VISUAL RWY 2			PHOG	KAHULUI	HI (US)
IAP	VOR RWY 20			PHOG	KAHULUI	HI (US)
IAP	VOR/DME OR TACAN RWY 20			PHOG	KAHULUI	HI (US)
IAP	ILS OR LOC/DME RWY 17			PHKO	KAILUA/KONA	HI (US)
IAP	VOR/DME OR TACAN RWY 17			PHKO	KAILUA/KONA	HI (US)
IAP	VOR OR TACAN-A			PHMK	KAUNAKAKAI	HI (US)
IAP	VOR/DME-A (SPECIAL).		1	PHJH	LAHAINA	HI (US)
IAP	ILS OR LOC/DME RWY 3			PHNY	LANAI CITY	HI (US)
IAP	RNAV (GPS) RWY 3			PHNY	LANAI CITY	HI (US)
IAP	VOR OR TACAN OR GPS-A			PHNY	LANAI CITY	HI (US)
IAP	VOR OR TACAN RWY 3			PHNY	LANAI CITY	HI (US)
STAR	FRITZI ONE (RNAV)			PHNL	HONOLULU	HI (US)
STAR	JULLE			PHNL	HONOLULU	HI (US)
STAR	SAKKI			PHNL	HONOLULU	HI (US)
STAR	CAMPS			PHOG	KAHULUI	HI (US)
STAR	KAYAK			PHKO	KAILUA-KONA	HI (US)
STAR	VECKI			PHKO	KAILUA/KONA	HI (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: BOTH

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 06/03/2010

QUALITY 5 CHECKED

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED HOLDING PATTERN CONTROLLING OBSTACLE.
CHANGED HOLDING AIRSPEED FROM 200 TO 230.
UPDATED REMARKS.

DEVELOPED BY:	**DATE:** 12/15/2009	**OFFICE:** AVN-130	**NAME:** JOHN WALKER
APPROVED BY:	**DATE:** 04/19/2010	**OFFICE:** AVN-130	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HNL
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD INFO ONLY

NAME: MAUI VORTAC **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 205423.22N/1562515.47W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MAUI	OGG	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V15 6800 WESTBOUND
MCA V24 6700 SOUTHWEST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	OGG	VORTAC	187.00	007.00	L	1-1 1/2		8000	17500	8	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	205336.00N/1563430.00W	5886	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	346

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID TERRAIN

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
NAD 83/WGS 84.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 FOR ATC USE.
PAT 1 CONTROLLING OBSTACLE LOCATED 4003' INTO SECONDARY AREA, PRIMARY EQUIVALENT ELEVATION 5222'.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOLOKAI			PHNL	HONOLULU	HI (US)
DP	BEACH			PHOG	KAHULUI	HI (US)
DP	MAUI			PHOG	KAHULUI	HI (US)
DP	ONOHI			PHOG	KAHULUI	HI (US)
DP	AMERY			PHKO	KAILUA-KONA	HI (US)
DP	BLUSH			PHMK	KAUNAKAKAI	HI (US)
EN ROUTE	R576					(US)
EN ROUTE	R577					(US)
EN ROUTE	V11					(US)
EN ROUTE	V15					(US)
EN ROUTE	V17					(US)
EN ROUTE	V22					(US)
EN ROUTE	V24					(US)
EN ROUTE	V6					(US)
EN ROUTE	V1					HI (US)
IAP	ILS OR LOC RWY 02			PHOG	KAHULUI	HI (US)
IAP	LOC/DME BC RWY 20			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 20			PHOG	KAHULUI	HI (US)
IAP	SMOKE STACK VISUAL RWY 02			PHOG	KAHULUI	HI (US)
IAP	VOR RWY 20			PHOG	KAHULUI	HI (US)
IAP	VOR/DME OR TACAN RWY 20			PHOG	KAHULUI	HI (US)
STAR	JULLE			PHNL	HONOLULU	HI (US)
STAR	MAGGI			PHNL	HONOLULU	HI (US)
STAR	SAKKI			PHNL	HONOLULU	HI (US)
STAR	CAMPS			PHOG	KAHULUI	HI (US)
STAR	KAYAK			PHKO	KAILUA/KONA	HI (US)
STAR	VECKI			PHKO	KAILUA/KONA	HI (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, AREA, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: BOTH

QUALITY 5 CHECKED

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
PATTERN 1 CONTROLLING OBSTACLE UPDATED, PRECIPITOUS TERRAIN ADJUSTMENT DOCUMENTED, MAX TEMPLATE CHANGED FROM 18 TO 16.
UPDATED FIX USE.

DEVELOPED BY:	**DATE:** 01/19/2011	**OFFICE:** AVN-130	**NAME:** JACOB POWERS
APPROVED BY:	**DATE:** 06/28/2011	**OFFICE:** AVN-130	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: OGG ATCT, HCF
OTHER:

QUALITY 5 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **KAHULUI** STATE: **HI**

AIRPORT NAME: **KAHULUI** ID: **PHOG**

PROCEDURE: **NDB RWY 02** AMDT: **ORIG**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.58**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **3.00**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **015.96**
4. High Terrain in **FINAL** segment containing 1000' point **309**
5. Distance from **THLD** to 1500' point **5.78**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **3.37**
7. True Course of **FINAL** segment containing 1500' point **015.96**
8. High Terrain in **FINAL** segment containing 1500' point **309**
9. Threshold Coordinates (if straight-in) ... **205320.90N** / **1562610.75W**
10. ARP Coordinates ..... **205355.14N** / **1562549.65W**
11. Runway Approach End and distance furthest from ARP ..... RWY **2**
    Distance **0.66** NM
12. FAF Coordinates ..... **204703.36N** / **1562819.19W**

REMARKS: Approach/Drawing attached.