

RADIO FIX AND HOLDING DATA RECORD

NAME: ALANA STATE: HI COUNTRY: US ICAO REGION CODE: PH
LATITUDE/LONGITUDE: 210431.18N/1575620.71W TYPE: WP, INT, DME
AIRSPACE DOCKET: 19-AWP-80 FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

Table with columns: FAC, NAME, IDENT, TYPE, CLASS, MAG BRG, TRUE BRG, DME, DIST FROM FAC (NM, FEET), MRA, MAA. Lists 4 facilities: LANAI, MOLOKAI, HONOLULU, KOKO HEAD.

EXPANDED SERVICE VOLUME (ESV):

Table with columns: FAC IDENT, FAC TYPE, RADIAL/BEARING, DISTANCE, MIN ALTITUDE, MAX ALTITUDE. Lists details for LNY and MKK.

FIX RESTRICTIONS:

MRA V21 5000
MRA V16 5000
MRA V8 5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

Table with columns: PAT, DIR, IDENT, TYPE, RAD/CRS/BRG, CRS INBOUND, TURN (L OR R), LEG LENGTH (TIME, DME), HOLDING ALTITUDES (MIN, MAX), TEMPLATES (MIN, MAX). Lists 3 patterns.

CONTROLLING OBSTRUCTIONS:

Table with columns: PAT, AIRSPEED, OBSTRUCTION, COORDINATES, ELEVATION, ACCURACY CODE. Lists 6 obstructions.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

Table with columns: PAT, PROCEDURE TITLE, AIRPORT IDENT, CITY, STATE. Lists 6 procedures.

REMARKS:

MOLOKAI (FAC 2) AND HONOLULU (FAC 3) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

Table with columns: USE TYPE, USE TITLE, FAC, PAT, AIRPORT IDENT, CITY, STATE. Lists various fix uses and routes.

|      |                         |      |   |      |          |         |
|------|-------------------------|------|---|------|----------|---------|
| IAP  | LOC RWY 8L              | 2, 3 | 1 | PHNL | HONOLULU | HI (US) |
| IAP  | LOC RWY 8L (ALT MISSED) | 1, 4 | 3 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (GPS) RWY 4L       |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (GPS) RWY 8R       |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (GPS) Y RWY 4R     |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (GPS) Y RWY 8L     |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (RNP) RWY 26L      |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (RNP) Z RWY 4R     |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | RNAV (RNP) Z RWY 8L     |      | 2 | PHNL | HONOLULU | HI (US) |
| IAP  | VOR OR TACAN -A         | 2, 3 | 1 | PHNL | HONOLULU | HI (US) |
| IAP  | VOR OR TACAN -B         | 2, 3 | 1 | PHNL | HONOLULU | HI (US) |
| IAP  | VOR OR TACAN RWY 4R     | 2, 3 | 1 | PHNL | HONOLULU | HI (US) |
| IAP  | VOR OR TACAN-B          | 2, 3 | 1 | PHHI | WAHIAWA  | HI (US) |
| STAR | JULLE                   |      |   | PHNL | HONOLULU | HI (US) |
| STAR | MAKAH (RNAV)            |      |   | PHNL | HONOLULU | HI (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 10

**DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**

AIRSPACE DOCKET: ADDED 19-AWP-80.

FIX MAKE-UP FACILITIES: EXCHANGED FACS 1 AND 3. ADDED FAC 1 (LNY) DME - ESV APPROVED.

FIX RESTRICTIONS: REMOVED ALL MRA DIRECTIONS - MRA(S) ARE MULTI-DIRECTIONAL. REMOVED DUPLICATE V16 MRA ENTRY. ADDED MRA V8 5000 - DOCUMENTED IN PART 95.

FIX USE: ADDED T344. ADDED (OBSTACLE) TO PHNL HONOLULU DP. CHANGED ALL VICTOR AIRWAY STATES FROM HI (US) TO (US). ADDED FACS 1,3,4 TO V16 AND FACS 1,2,3,4 TO V8 AND V21. REMOVED PHNL ALANA DP.

|  |                         |                         |                          |
|--|-------------------------|-------------------------|--------------------------|
| <b>INITIATED BY:</b>                     | <b>DATE:</b>            | <b>ORGANIZATION:</b>    | <b>NAME:</b>             |
| <b>OFFICE OF PRIMARY RESPONSIBILITY:</b> |                         | AJV-A423                | <b>NAME:</b> BARRY SMITH |
| <b>APPROVED BY:</b>                      | <b>DATE:</b> 11/30/2023 | <b>OFFICE:</b> AJV-A423 | <b>NAME:</b> ALLAN WILL  |
|  | <b>SIGNATURE:</b>       |                         |                          |

# RADIO FIX AND HOLDING DATA RECORD

NAME: BOOKE STATE: HI COUNTRY: US ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 212747.15N/1582659.39W TYPE: WP, RADAR, DME

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 | FEET | MRA  | MAA   |
|-----|-------|-------|--------|-------|---------|----------|-------|------------------|------|------|-------|
| 1   | LIHUE | LIH   | VORTAC | H     | 110.00  | 121.00   | 58.00 | 58.00            |      | 4000 | 45000 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| LIH       | VORTAC   | R-110          | 58       | 4000         | 14700        |

HOLDING: HOLDING TYPE OF ACTION: MODIFY

**PATTERNS:**

| PAT | DIR | IDENT | TYPE   | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | DME | HOLDING ALTITUDES MIN | MAX   | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|-----------------|-----|-----------------------|-------|---------------|-----|
| 1   | W   | LIH   | VORTAC | 110.00      | 110.00      | L             | 1               |     | 4000                  | 14000 | 7             | 12  |
| 2   | W   | LIH   | VORTAC | 110.00      | 110.00      | R             | 1 1/2           |     | 14000                 | 24000 | 15            | 21  |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 200      | 208' SHIPS  | 212747.15N/1582659.39W | 208       | 2C            |
| 2   | 265      | 208' SHIPS  | 212747.15N/1582659.39W | 208       | 2C            |

REASON FOR NONSTANDARD HOLDING: PAT 1 ATC REQUEST

HOLDING RESTRICTIONS: HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. PAT 2 PER ATC REQUEST.

**FIX USE:**

| USE TYPE | USE TITLE           | FAC | PAT | AIRPORT IDENT | CITY     | STATE   |
|----------|---------------------|-----|-----|---------------|----------|---------|
| DP       | LIHUE               | 1   | 1   | PHLI          | LIHUE    | HI (US) |
| DP       | RICHE               | 1   | 1   | PHLI          | LIHUE    | HI (US) |
| EN ROUTE | V15                 | 1   |     |               |          | (US)    |
| IAP      | ILS RWY 8L          | 1   |     | PHNL          | HONOLULU | HI (US) |
| IAP      | RNAV (GPS) RWY 4L   |     |     | PHNL          | HONOLULU | HI (US) |
| IAP      | RNAV (GPS) RWY 8R   |     |     | PHNL          | HONOLULU | HI (US) |
| IAP      | RNAV (GPS) Y RWY 8L |     |     | PHNL          | HONOLULU | HI (US) |
| STAR     | BOOKE               | 1   | 1   | PHNL          | HONOLULU | HI (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 DATE OF REVISION: 11/02/2023

REASON FOR REVISION: PAT1 AND PAT 2 RAD/CRS/BRG CHANGED FROM 290.00 TO 110.00

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A433 NAME: 08292023

APPROVED BY: DATE: 08/29/2023 OFFICE: AJV-A433 NAME: DAVID TEFFETELLER

SIGNATURE:



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

**COMPULSORY REPORTING POINT:** LOW/HIGH

**RECORD REVISION NUMBER:** 17

**DATE OF REVISION:** 01/25/2024

**REASON FOR REVISION:**

1. REMOVED SHINSEKI DP FROM FIX USE.
2. ADDED KOKO HEAD DP TO FIX USE.
3. CHANGED PAT 1 MIN TEMPLATE FROM 6 TO 4 AND UPDATED AAO COORDINATES, ELEVATION, AC, AND PRECIP TERRAIN ADDITION.
4. ADDED PHOG VOR Y RWY 20 AND NDB RWY 02 TO FIX USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A422

**NAME:** JAMES HAUGH

**APPROVED BY:**

**DATE:** 01/25/2024

**OFFICE:** AJV-A422

**NAME:** RAKE MCGRAW

**SIGNATURE:**



STAR  
STAR  
STAR

SAKKI  
KAYAK  
VECKI

PHNL  
PHKO  
PHKO

HONOLULU  
KAILUA-KONA  
KAILUA-KONA

HI (US)  
HI (US)  
HI (US)

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

**COMPULSORY REPORTING POINT:** LOW

**RECORD REVISION NUMBER:** 19

**DATE OF REVISION:** 10/05/2023

**REASON FOR REVISION:**

REMOVED PHOG NDB RWY 2 FROM FIX USE  
REMOVED PHOG ILS Y OR LOC Y RWY 2 FROM FIX USE

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** JOSEPH BLANCO

**APPROVED BY:**

**DATE:** 10/05/2023

**OFFICE:** AJV-A430

**NAME:** JOHNNIE BAKER

**SIGNATURE:**

