U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SHLAY	ONE	SHLAY1.SHLAY	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RUNWAY 8L: CLIMB HEADING 079.00 TO INTERCEPT COURSE 165.81 TO SHLAY, THENCE...

TAKEOFF RUNWAY 8R: CLIMB HEADING 079.00 TO INTERCEPT COURSE 159.47 TO SHLAY, THENCE...

...(TRANSITION), MAINTAIN 5000, EXPECT FILED ALTITUDE 10 MIN AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
KEOLA	SHLAY1.KEOLA	SHLAY	FIVEO	TRACK 181.44	09.11	2300		
		FIVEO	ZAPFF	TRACK 250.53	8.32	2300		
		ZAPFF	KEOLA	TRACK 289.70	28.27	2300		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS:
NOTE: RWY 4L, 4R, 22L, 22R, 26L, 26R: NA – ATC.
RWY 8L, STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 2500.
RWY 8R, STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2500.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV-1
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

TAKEOFF OBSTACLES NOTES:

CONTROLLING OBSTACLES:

RWY 8L: 447 MSL TOWER 211915.30N/1575223.06W
RWY 8R: 406 MSL BLDG 211801.00N/1575141.00W

LOST COMMUNICATIONS PROCEDURES:

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SHLAY	ONE	SHLAY1.SHLAY	NONE		

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR PHNL 11E, EPOCH YEAR 1990.
AT SHLAY CHART: CROSS AT OR ABOVE 2500.
DO NOT CHART VI ALTITUDES.
DME/DME ASSESSMENT SAT.

AIRPORTS SERVED:

HONOLULU INTERNATIONAL AIRPORT, HONOLULU, HI

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, HNL TOWER, HCF DEPARTURE.

FIXES AND/OR NAVAIDS:

REMARKS:

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SHLAY	ONE	SHLAY1.SHLAY	NONE		

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

VICTOR C BOONE AJV-354 07/28/2011

APPROVED BY:

DEZ SILAGYI AJV-354

COORDINATED WITH:

ATA, APA, AOPA, NBAA, HNL ATCT, AMGR

CHANGES:

ORIGINAL.

REASONS:

WESTERN FPO REQUEST.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SHLAY RNAV	ONE	SHLAY1.SHLAY	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RWY 8L (AER)	211930.89N/1575635.64W	N	-	-	-	-			
	211930.87N/1575251.07W	-	-	VI	090.00	03.49			CG 340 FT PER NM TO 2500
SHLAY	211336.00N/1575230.00W	Y	FB	CF	176.81	05.90	AT/ABOVE 2500		
RWY 8R (AER)	211824.49N/1575645.07W	N	-	-	-	-			
	211824.48N/1575321.68W	-	-	VI	090.00	03.17			CG 420 FT PER NM TO 2500
SHLAY	211336.00N/1575230.00W	Y	FB	CF	170.47	04.86	AT/ABOVE 2500		
SHLAY	211336.00N/1575230.00W	Y	-	IF	-	-			
FIVEO	210440.00N/1575436.00W	Y	FB	TF	192.44	09.11			
ZAPFF	210326.00N/1580324.00W	Y	FB	TF	261.53	08.32			
KEOLA	211753.24N/1582925.89W	Y	FB	TF	300.70	28.27			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SHLAY RNAV	ONE	SHLAY1.SHLAY	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SPACD        HNL   PH011480VTH  N21183000W157554950    N21183000W157554950E0110000102     NARHONOLULU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SPACEAENRT   FIVEO PH0    W     N21044000W157543600                      E0097     NAR           FIVEO
        SPACEAENRT   KEOLA PH0    C   L N21175324W158292589                      E0097     NAR           KEOLA
        SPACEAENRT   SHLAY PH0    W     N21133600W157523000                      E0097     NAR           SHLAY
        SPACEAENRT   ZAPFF PH0    W     N21032600W158032400                      E0097     NAR           ZAPFF

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SPACP PHNLPHAHNL     0     123YHN21190725W157552074E011000013         1800018000C    MNAR    HONOLULU INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SPACP PHNLPHDSHLAY14RW08L 010         0        VI                     0790                    18000
        SPACP PHNLPHDSHLAY14RW08L 020SHLAYPHEA0EE   010CF HNL PH      1365005816580059D   + 02500
        SPACP PHNLPHDSHLAY14RW08R 010         0        VI                     0790                    18000
        SPACP PHNLPHDSHLAY14RW08R 020SHLAYPHEA0EE   010CF HNL PH      1365005815950049D   + 02500
        SPACP PHNLPHDSHLAY16KEOLA 010SHLAYPHEA0E       IF                                + 02500     18000
        SPACP PHNLPHDSHLAY16KEOLA 020FIVEOPHEA0E    010TF                     18140091
        SPACP PHNLPHDSHLAY16KEOLA 030ZAPFFPHEA0E    010TF                     25050083
        SPACP PHNLPHDSHLAY16KEOLA 040KEOLAPHEA0EE   010TF                     28970283

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SPACP PHNLPHGRW08L   0123000790 N21193089W157563564+0000          00012000065150IIHNL1
        SPACP PHNLPHGRW08R   0120000790 N21182449W157564507+0000          00010000052200R
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SHLAY RNAV	ONE	SHLAY1.SHLAY	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW08L		010		VI		FB		079.0()			
	RW08L	SHLAY	020		CF		FB	1.0	165.8()	005.9	AA 02500	
	RW08R		010		VI		FB		079.0()			
	RW08R	SHLAY	020		CF		FB	1.0	159.5()	004.9	AA 02500	
	KEOLA	SHLAY	010		IF		FB				AA 02500	
	KEOLA	FIVEO	020		TF		FB	1.0	181.4()	009.1		
	KEOLA	ZAPFF	030		TF		FB	1.0	250.5()	008.3		
	KEOLA	KEOLA	040		TF		FB	1.0	289.7()	028.3		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
HNL	N211830.00	W1575549.50	N2118.500	W15755.825
FIVEO	N210440.00	W1575436.00	N2104.667	W15754.600
KEOLA	N211753.24	W1582925.89	N2117.887	W15829.432
SHLAY	N211336.00	W1575230.00	N2113.600	W15752.500
ZAPFF	N210326.00	W1580324.00	N2103.433	W15803.400
RW08L	N211930.89	W1575635.64	N2119.515	W15756.594
RW08R	N211824.49	W1575645.07	N2118.408	W15756.751

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW08L	00012	65
RW08R	00010	52

RADIO FIX AND HOLDING DATA RECORD

NAME: FIVEO **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 210440.00N/1575436.00W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SHLAY (RNAV)			PHNL	HONOLULU	HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/15/2011

DEVELOPED BY: **DATE:** 07/20/2011 **OFFICE:** AJV-354 **NAME:** VICTOR BOONE

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: KEOLA **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 211753.24N/1582925.89W **TYPE:** WP, RADAR, 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	HONOLULU	HNL	VORTAC	H	257.99	268.99	31.39	31.39		4000	45000
2	SOUTH KAUAI	SOK	VORTAC	H	110.62	121.62	68.32	68.32		9000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SOK	VORTAC	R-111	69	9000	45000

FIX RESTRICTIONS:
MRA V16 10000

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

REMARKS:
SOUTH KAUAI (FAC 2) AND HONOLULU (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KEOLA	1, 2		PHNL	HONOLULU	HI (US)
DP	SHLAY (RNAV)			PHNL	HONOLULU	HI (US)
EN ROUTE	V12	1, 2				(US)
EN ROUTE	V16	1, 2				(US)
IAP	RNAV (GPS) Y RWY 4R			PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) Z RWY 4R			PHNL	HONOLULU	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
UPDATED FACS 1 & 2 FROM HISTORY STATUS
ADDED DIST FROM FACS 1 & 2.
MOVED ESV FROM REMARKS TO DESIGNATED SECTION.
REMOVED FAC 3 - NO LONGER NEEDED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/12/2011 **OFFICE:** AJV-354 **NAME:** VICTOR BOONE

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SHLAY **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 211336.00N/1575230.00W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SHLAY (RNAV)			PHNL	HONOLULU	HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/15/2011

DEVELOPED BY: **DATE:** 07/20/2011 **OFFICE:** AJV-354 **NAME:** VICTOR BOONE

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZAPFF **STATE:** HI **COUNTRY:** US

LATITUDE/LONGITUDE: 210326.00N/1580324.00W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SHLAY (RNAV)			PHNL	HONOLULU	HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/15/2011

DEVELOPED BY: **DATE:** 07/19/2011 **OFFICE:** AJV-354 **NAME:** VICTOR BOONE

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

SIGNATURE:

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