

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 statute miles or feet RVR unless otherwise indicated.

DP NAME KALAE	NUMBER ONE	DP COMPUTER CODE KALAE1.KALAE	SUPERSEDED NUMBER NONE	DATED	ACTUAL EFFECTIVE DATE 25FEB2021
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TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17: CLIMB ON HEADING 169.03 TO INTERCEPT COURSE 196.29 TO CROSS KALAE AT OR ABOVE 3000 AND AT OR BELOW 230 KIAS, THENCE ...
TAKEOFF RWY 23: CLIMB ON HEADING 229.42 TO INTERCEPT COURSE 182.12 TO CROSS KALAE AT OR ABOVE 3000 AND AT OR BELOW 230 KIAS, THENCE ...
...(TRANSITION) MAINTAIN 5000, EXPECT FILED ALTITUDE 5 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
ALANA	KALAE1.ALANA	KALAE	SAKKI	TRACK 238.00	21.10	2600		
		SAKKI	ALANA	TRACK 277.82	26.72	2600	1300	
EELIO	KALAE1.EELIO	KALAE	HLAWA	TRACK 110.43	16.36	3400		HLAWA AT/ABOVE 4000
		HLAWA	EELIO	TRACK 123.71	17.50	3900		
LANAI	KALAE1.LNY	KALAE	AARES	TRACK 135.29	4.31	4000	1300	AARES AT/ABOVE 4000
		AARES	LNY VORTAC	TRACK 142.13	15.69	4000		
LOKIE	KALAE1.LOKIE	KALAE	HLONO	TRACK 248.06	6.33	3100		
		HLONO	LOKIE	TRACK 302.29	7.46	3100	2600	

PROCEDURAL DATA NOTES:

NOTE: RNAV 1.
NOTE: GPS REQUIRED.
NOTE: RADAR REQUIRED.

TAKEOFF MINIMUMS:

RWY 5, 35 N/A: AIR TRAFFIC.
RWY 17: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3000.
RWY 23: STANDARD WITH MINIMUM CLIMB OF 415 FT PER NM TO 1900.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

RWY 17: 2828 FT MSL AAO 204939.00N/1565209.00W
RWY 23: 1545 FT MSL AAO 210806.48N/1570933.02W



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KALAE	ONE	KALAE1.KALAE	NONE		25FEB2021

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART TOP ALTITUDE: 5000.
 CHART SPEED ICON MAXIMUM 230 KIAS AT KALAE.
 REFERENCE MAG VAR: PHMK 11E, EPOCH YEAR 1980

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MOLOKAI	PHMK	KAUNAKAKAI	HI

COMMUNICATIONS:

ATIS, GND CON, ATCT, HCF CENTER

FIXES AND/OR NAVAIDS:

REMARKS:

APCH AND DEP SERVICE PROVIDED BY HCF CENTER (MOUNT HALEAKALA RCAG)

MEA FOR THE EELIO TRANSITION, KALAE TO HLWA SEGMENT RAISED FROM 3300 TO 3400 FOR 2828 FT MSL HIGH TERRAIN IN THE HLWA TO EELIO SEGMENT TO ENSURE ENROUTE OBSTACLE CLEARANCE SLOPE IS CLEAR IAW THE 8260.3D, SECTION 15.3.

APPLIED 500 FT PER NM TO 3000 CG TO RWY 17 TO ENSURE 3400 MEA IS REACHED IN THE EELIO TRANSITION PRIOR TO HLWA FIX TO MITIGATE 2828 FT MSL HIGH TERRAIN IN HLWA TO EELIO SEGMENT.

FLIGHT INSPECTED BY

EDWARD W MESA

Digitally signed by
DONALD H LANIER
 Dec 04, 2020

OFFICE

FICO

DATE

12/3/2020

DEVELOPED BY

DEXTER SWEETING

Digitally signed by
DONALD H LANIER
 Dec 04, 2020

OFFICE

AJV-A431

DATE

02/14/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by
DONALD H LANIER
 Dec 04, 2020

OFFICE

AJV-A430

DATE

TITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:**ARPT MGR, ZHN, MKK ATCT

CHANGES - REASONS:

ORIGINAL PROCEDURE.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KALAE	ONE	KALAE1.KALAE	NONE		25FEB2021

<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW17 (AER)*	210922.65N/1570551.27W*	N	-	-	-	-			*DISPL THLD (426 FT) CG 500 FT/NM TO 3000
-	210752.90N/1570551.32W	-	-	VI	180.03	1.49			
KALAE	210330.94N/1570815.38W	Y	FB	CF	207.29	4.90	AT/ABOVE 3000	AT/BELOW 230K	
RW23 (AER)*	210917.76N/1570528.03W*	N	-	-	-	-			*DISPL THLD (593 FT) CG 415 FT/NM TO 1900
-	210827.95N/1570701.57W	-	-	VI	240.42	1.68			
KALAE	210330.94N/1570815.38W	Y	FB	CF	193.12	5.06	AT/ABOVE 3000	AT/BELOW 230K	
TRANSITIONS									
KALAE	210330.94N/1570815.38W	Y	-	IF	-	-	AT/ABOVE 3000	AT/BELOW 230K	KALAE1.ALANA
SAKKI	205554.31N/1572918.03W	Y	FB	TF	249.00	21.10			
ALANA	210431.18N/1575620.71W	Y	FB	TF	288.82	26.72			
KALAE	210330.94N/1570815.38W	Y	-	IF	-	-	AT/ABOVE 3000	AT/BELOW 230K	KALAE1.EELIO
HLAWA	205456.76N/1565320.92W	Y	FB	TF	121.43	16.36	AT/ABOVE 4000		
EELIO	204235.03N/1564005.11W	Y	FB	TF	134.71	17.50			
KALAE	210330.94N/1570815.38W	Y	-	IF	-	-	AT/ABOVE 3000	AT/BELOW 230K	KALAE1.LNY
AARES	205955.00N/1570542.00W	Y	FB	TF	146.29	4.31	AT/ABOVE 4000		
LNY VORTAC	204552.20N/1565808.00W	Y	FB	TF	153.13	15.69			
KALAE	210330.94N/1570815.38W	Y	-	IF	-	-	AT/ABOVE 3000	AT/BELOW 230K	KALAE1.LOKIE



<u>DP NAME</u>		<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>			
KALAE		ONE	KALAE1.KALAE	NONE		25FEB2021			
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
HLONO	210218.48N/1571453.85W	Y	FB	TF	259.06	6.33			
LOKIE	210726.26N/1572042.18W	Y	FB	TF	313.29	7.46			

