

**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.
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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
HOBOW	ONE	HOBOW1.HOBOW	NONE		27 APR 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 02L: CLIMB HEADING 015.91 TO 560, THEN DIRECT LIION, THEN ON TRACK 058.31 TO CHOAK, THEN ON DEPICTED ROUTE TO HOBOW THENCE...
...(TRANSITION). TURBOPROPS MAINTAIN 16000. TURBOJETS MAINTAIN 17000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
BEALE	HOBOW1.BEALE	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900	CAHIL AT/ABOVE 15000
		CAHIL	ZOOMM	TRACK 025.26	3.49	14000	3700	ZOOMM AT/ABOVE 16000
		ZOOMM	SEBBY	TRACK 025.29	10.32	15000	3700	
		SEBBY	PLAYY	TRACK 038.91	20.00	15000	12300	
		PLAYY	ARCUS	TRACK 039.09	23.11	15000	7700	
		ARCUS	YELAH	TRACK 038.25	29.36	15000	8500	
		YELAH	WYZEE	TRACK 035.70	75.41	15000	9900	
		WYZEE	BEALE	TRACK 036.36	44.03	15000	8600	
HAILO	HOBOW1.HAILO	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900	CAHIL AT/ABOVE 15000
		CAHIL	ZOOMM	TRACK 025.26	3.49	14000	3700	ZOOMM AT/ABOVE 16000
		ZOOMM	SEBBY	TRACK 025.29	10.32	15000	3700	
		SEBBY	PLAYY	TRACK 038.91	20.00	15000	12300	
		PLAYY	GUNNR	TRACK 022.26	41.89	15000	7700	
		GUNNR	ARMY	TRACK 035.41	16.52	15000	6700	
		ARMY	HAILO	TRACK 035.44	51.05	15000	9600	
LAS VEGAS	HOBOW1.LAS	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900	CAHIL AT/ABOVE 15000

QUALITY
3
CHECKED

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HOBOW			ONE	HOBOW1.HOBOW	NONE			27 APR 2017
	CAHIL		ZOOMM	TRACK 025.26	3.49	14000	3700	ZOOMM AT/ABOVE 16000
	ZOOMM		SEBBY	TRACK 025.29	10.32	15000	3700	
	SEBBY		PLAYY	TRACK 038.91	20.00	15000	12300	
	PLAYY		NNAVY	TRACK 032.29	52.05	15000	7700	
	NNAVY		BLAZN	TRACK 035.24	63.19	15000	6700	
	BLAZN	LAS VORTAC		TRACK 036.23	40.41	15000	10800	
MISEN	HOBOW1.MISEN	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900	CAHIL AT/ABOVE 15000
	CAHIL		ZOOMM	TRACK 025.26	3.49	14000	3700	ZOOMM AT/ABOVE 16000
	ZOOMM		SEBBY	TRACK 025.29	10.32	15000	3700	
	SEBBY		PLAYY	TRACK 038.91	20.00	15000	12300	
	PLAYY		ARCUS	TRACK 039.09	23.11	15000	7700	
	ARCUS		YELAH	TRACK 038.25	29.36	15000	8500	
	YELAH		MISEN	TRACK 026.55	19.03	15000	5300	
NNAVY	HOBOW1.NNAVY	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900	CAHIL AT/ABOVE 15000
	CAHIL		ZOOMM	TRACK 025.26	3.49	14000	3700	ZOOMM AT/ABOVE 16000
	ZOOMM		SEBBY	TRACK 025.29	10.32	15000	3700	
	SEBBY		PLAYY	TRACK 038.91	20.00	15000	12300	
	PLAYY		NNAVY	TRACK 032.29	52.05	15000	7700	

PROCEDURAL DATA NOTES:

NOTE: RNAV 1.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: MISEN TRANSITION RESTRICTED TO AIRCRAFT LANDING LAS COMPLEX.
NOTE: TURBOJETS AND TURBOPROPS ONLY.
NOTE: HAILO, LAS & NNAVY TRANSITIONS - ATC ASSIGNED ONLY.
NOTE: IF UNABLE SPEED RESTRICTION AT CAHIL, ADVISE ATC ON INITIAL CONTACT.



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HOBOW	ONE	HOBOW1.HOBOW	NONE		27 APR 2017

TAKEOFF MINIMUMS:

RWY 02L: STANDARD WITH A MINIMUM CLIMB OF 500 FT/NM TO 1500.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 02L, POLE AND TREES BEGINNING 94FT FROM DER, 490FT LEFT OF CENTERLINE, UP TO 26FT AGL/63 FT MSL. NAVAID 497 FT FROM DER, 625FT RIGHT OF CENTERLINE, 19FT AGL/55 FT MSL. TREES BEGINNING 970FT FROM DER, 608FT LEFT OF CENTERLINE, UP TO 90FT AGL/127 FT MSL.

CONTROLLING OBSTACLES:

RWY 02L: 1975 FT MSL AAO, 334357.06N/1174155.11W (CTA).

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT SAT: (RNP 2.0)
CHART: TOP ALTITUDE: TURBOPROPS - 16000; TURBOJETS - 17000.
REFERENCE MAG VAR: KSNA 12E EPOCH YR: 2015.
CHART SPEED ICON MAXIMUM SPEED 210 KIAS AT KLNCH.
CHART SPEED ICON MANDATORY 280 KIAS AT CAHIL.
DO NOT CHART MOCAS.
CHART: ALTITUDE BETWEEN 10000 AND 12000 AT TRAYN.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
JOHN WAYNE AIRPORT-ORANGE COUNTY	SANTA ANA	CA

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON (EAST) (WEST), SOCAL DEP CON

FIXES AND/OR NAVAIDS:**REMARKS:****FLIGHT INSPECTED BY:**

JAMES MEEK

Digitally signed by

BEV L BORDY

Feb 24, 2017

OFFICE SYMBOL:

FIOG

DATE:

2/23/2017

DEVELOPED BY:

DUSTIN DAVIDSON

DUSTIN RYAN DAVIDSON

Digitally signed by DUSTIN RYAN DAVIDSON
Date: 2017.01.10 15:47:13 -06'00'

OFFICE SYMBOL:

AJV-5422

DATE:

12/06/2016

APPROVED BY:

JULIE MORGAN

Digitally signed by

BEV L BORDY

Feb 24, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

QUALITY
4
CHECKED

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HOBOW	ONE	HOBOW1.HOBOW	NONE		27 APR 2017

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:**CHANGES - REASONS:**

2/23/2017: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/06/2017.

1. CHANGED HIGHER ALTITUDE TO FILED ALTITUDE IN DP ROUTE DESCRIPTION.
2. CHANGED HOBOW.BEALE TRANSITION CODE TO HOBOW1.BEALE.

QUALITY
3
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**FEDERAL AVIATION ADMINISTRATION
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DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
HOBOW							ONE	HOBOW1.HOBOW	NONE		27 APR 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW02L (AER)	334004.09N/1175225.79W	N	-	-	-	-					
560 MSL	-	-	-	VA	027.91	-				CG 500 FT PER NM TO 1500	
LIION	334359.63N/1174958.41W	Y	FB	DF	-	-				RIGHT TURN	
CHOAK	334520.01N/1174529.18W	Y	FB	TF	070.31	3.97					
JAABB	334207.69N/1174245.98W	Y	FB	TF	144.65	3.92					
KLNCH	333900.25N/1174357.93W	Y	FB	TF	197.80	3.27			AT/BELOW 210K		
TKDWN	333738.06N/1174812.88W	Y	FB	TF	248.94	3.80					
TRAYN	333935.23N/1175357.94W	Y	FB	TF	292.12	5.18	10000B12000				
JUMPP	334252.93N/1175800.73W	Y	FB	TF	314.27	4.71					
HOBOW	334749.88N/1180023.48W	Y	FB	TF	338.13	5.32					
HOBOW	334749.88N/1180023.48W	Y	-	IF	-	-				HOBOW1.BEALE	
CAHIL	335422.57N/1175641.25W	Y	FB	TF	025.26	7.22	AT/ABOVE 15000	AT 280K			
ZOOMM	335709.41N/1175408.91W	Y	FB	TF	037.26	3.49	AT/ABOVE 16000				
SEBBY	340522.87N/1174637.12W	Y	FB	TF	037.29	10.32					
PLAYY	341759.34N/1172752.81W	Y	FB	TF	050.91	20.00					
ARCUS	343230.00N/1170606.42W	Y	FB	TF	051.09	23.11					
YELAH	345115.00N/1163840.90W	Y	FB	TF	050.25	29.36					
WYZEE	354145.92N/1153012.69W	Y	FB	TF	047.70	75.41					
BEALE	361056.83N/1144934.09W	Y	FB	TF	048.36	44.03					
HOBOW	334749.88N/1180023.48W	Y	-	IF	-	-				HOBOW1.HAILO	QUALITY 3

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HOBOW		ONE		HOBOW1.HOBOW		NONE			27 APR 2017
<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>
CAHIL	335422.57N/1175641.25W	Y	FB	TF	025.26	7.22	AT/ABOVE 15000	AT 280K	
ZOOMM	335709.41N/1175408.91W	Y	FB	TF	037.26	3.49	AT/ABOVE 16000		
SEBBY	340522.87N/1174637.12W	Y	FB	TF	037.29	10.32			
PLAYY	341759.34N/1172752.81W	Y	FB	TF	050.91	20.00			
GUNNR	345237.00N/1165913.00W	Y	FB	TF	034.26	41.89			
ARMY	350348.00N/1164424.00W	Y	FB	TF	047.41	16.52			
HAILO	353814.00N/1155816.00W	Y	FB	TF	047.44	51.05			
HOBOW	334749.88N/1180023.48W	Y	-	IF	-	-			HOBOW1.LAS
CAHIL	335422.57N/1175641.25W	Y	FB	TF	025.26	7.22	AT/ABOVE 15000	AT 280K	
ZOOMM	335709.41N/1175408.91W	Y	FB	TF	037.26	3.49	AT/ABOVE 16000		
SEBBY	340522.87N/1174637.12W	Y	FB	TF	037.29	10.32			
PLAYY	341759.34N/1172752.81W	Y	FB	TF	050.91	20.00			
NNAVY	345510.68N/1164340.88W	Y	FB	TF	044.29	52.05			
BLAZN	353755.21N/1154646.06W	Y	FB	TF	047.24	63.19			
LAS VORTAC	360446.93N/1150935.27W	Y	FB	TF	048.23	40.41			
HOBOW	334749.88N/1180023.48W	Y	-	IF	-	-			HOBOW1.MISEN
CAHIL	335422.57N/1175641.25W	Y	FB	TF	025.26	7.22	AT/ABOVE 15000	AT 280K	
ZOOMM	335709.41N/1175408.91W	Y	FB	TF	037.26	3.49	AT/ABOVE 16000		
SEBBY	340522.87N/1174637.12W	Y	FB	TF	037.29	10.32			
PLAYY	341759.34N/1172752.81W	Y	FB	TF	050.91	20.00			

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HOBOW		ONE		HOBOW1.HOBOW		NONE			27 APR 2017
<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>
ARCUS	343230.00N/1170606.42W	Y	FB	TF	051.09	23.11			
YELAH	345115.00N/1163840.90W	Y	FB	TF	050.25	29.36			
MISEN	350608.46N/1162413.86W	Y	FB	TF	038.55	19.03			
HOBOW	334749.88N/1180023.48W	Y	-	IF	-	-			HOBOW1.NNAVY
CAHIL	335422.57N/1175641.25W	Y	FB	TF	025.26	7.22	AT/ABOVE 15000	AT 280K	
ZOOMM	335709.41N/1175408.91W	Y	FB	TF	037.26	3.49	AT/ABOVE 16000		
SEBBY	340522.87N/1174637.12W	Y	FB	TF	037.29	10.32			
PLAYY	341759.34N/1172752.81W	Y	FB	TF	050.91	20.00			
NNAVY	345510.68N/1164340.88W	Y	FB	TF	044.29	52.05			

QUALITY
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