

**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
HOBOW	THREE	HOBOW3.HOBOW	TWO	02/01/2018	21MAY2020

<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 ON HEADING 015.91 TO 560, THEN CLIMB DIRECT LIION, THEN ON TRACK 058.31 TO CHOAK, THEN ON DEPICTED ROUTE TO HOBOW THENCE...
...(TRANSITION). 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	HOBOW3.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	
HAILO	HOBOW3.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	HOBOW3.LAS	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900	CAHIL AT/ABOVE 15000



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HOBOW	THREE	HOBOW3.HOBOW	TWO	02/01/2018	21MAY2020		
	CAHIL	ZOOMM	TRACK 025.26	3.49	14000	3700	
	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	HOBOW3.MISEN	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900
	CAHIL	ZOOMM	TRACK 025.26	3.49	14000	3700	
	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	HOBOW3.NNAVY	HOBOW	CAHIL	TRACK 013.26	7.22	10000	2900
	CAHIL	ZOOMM	TRACK 025.26	3.49	14000	3700	
	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 TERMINAL AREA.
- NOTE: TURBOJETS ONLY.
- NOTE: HAILO, LAS & NNAVY TRANSITIONS-ATC ASSIGNED ONLY.
- NOTE: IF UNABLE SPEED RESTRICTION AT CAHIL, ADVISE ATC ON INITIAL CONTACT.

TAKEOFF MINIMUMS:

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



DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
HOBOW	THREE	HOBOW3.HOBOW	TWO	02/01/2018	21MAY2020

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

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

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

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

AIRPORTS SERVED:

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

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

REMARKS:

ABBREVIATED AMENDMENT.
 TAKEOFF MINIMUMS AND CONTROLLING OBSTACLE NOTES CARRIED OVER FROM HOBOW TWO 8260-15B.

FLIGHT INSPECTED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018.
 SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

Digitally signed by **OFFICE** **DATE**
DAVID TEFFETELLER AJW-33
 Jan 16, 2020

DEVELOPED BY *Digitally signed by*

DIANE LAIR **DIANE S LAIR** **OFFICE** **DATE**
 Jan 09, 2020 AJV-A433 12/04/2019

APPROVED BY

GEORGE DAVIS *Digitally signed by* **OFFICE** **DATE** **TITLE**
DAVID TEFFETELLER AJV-A430 12/04/2019 MANAGER
 Jan 16, 2020

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZLA, SNA ATCT, SOCAL DEP CON, AMGR

CHANGES - REASONS:

CHANGED NAME FROM HOBOW TWO TO HOBOW THREE AND CHANGED COMPUTER CODE FROM HOBOW2.HOBOW TO HOBOW3.HOBOW - PROCEDURE AMENDED, LAS METROPLEX.
 CHANGED DP ROUTE DESCRIPTION FROM "...CLIMB HEADING 015.91..." TO "...CLIMB ON HEADING 015.91..." - IAW 8260.46G, PARA 1-1-5A(3).



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HOBOW	THREE	HOBOW3.HOBOW	TWO	02/01/2018	21MAY2020

REMOVED TAKEOFF OBSTACLE NOTES AND ADDED "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)" TO TAKEOFF OBSTACLES NOTES - PER MEMO 259, DATED 12/27/2017, WHICH REMOVES THE REQUIREMENT TO DOCUMENT TAKEOFF OBSTACLE NOTES FOR STANDARD INSTRUMENT DEPARTURE CHARTS.
 ADDED AIRPORTS SERVED: AIRPORT ID KSNA - IAW 8260.46G, APPENDIX D, SECTION 2, PARA 11.
 CHANGED MISEN TRANSITION CHART NOTE FROM "...LANDING LAS COMPLEX," TO "...LANDING LAS TERMINAL AREA."- LAS METROPLEX REQUEST.



**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>				
HOBOW	THREE	HOBOW3.HOBOW	TWO	02/01/2018	21MAY2020				
<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>
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	-	-			HOBOW3.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	-	-			HOBOW3.HAILO



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HOBOW		THREE		HOBOW3.HOBOW		TWO		02/01/2018		21MAY2020	
<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	-	-	HOBOW3.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	-	-	HOBOW3.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					
ARCUS	343230.00N/1170606.42W	Y	FB	TF	051.09	23.11					
YELAH	345115.00N/1163840.90W	Y	FB	TF	050.25	29.36					



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HOBOW		THREE	HOBOW3.HOBOW	TWO	02/01/2018	21MAY2020				
<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>	
MISEN	350608.46N/1162413.86W	Y	FB	TF	038.55	19.03				
HOBOW	334749.88N/1180023.48W	Y	-	IF	-	-			HOBOW3.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				

