

**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SUPERSEDED NUMBER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>EFFECTIVE DATE</u>
STAYY	TWO	STAYY2.STAYY	ONE	02/01/2018	20JUNE2019

<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 20R: CLIMB ON COURSE 195.91 TO CROSS BIKKL AT OR ABOVE 556, THEN LEFT TURN TO HEFAY, THEN RIGHT TURN TO CROSS PAPAU AT OR BELOW 5000 AND AT OR BELOW 220 KIAS, THEN LEFT TURN TO CROSS LRREN AT OR BELOW 5000, THEN LEFT TURN TO HTCHR, THEN ON TRACK 140.28 TO TANGL, THEN ON TRACK 102.72 TO CROSS SHIRR AT OR ABOVE 7000, THEN ON TRACK 072.64 TO DANAH, THEN ON TRACK 048.34 TO CROSS STAYY AT OR ABOVE 9000, THENCE...

...ON (TRANSITION). MAINTAIN 13000. 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>
AVRRY	STAYY2.AVRRY	STAYY	FNCHH	TRACK 079.58	12.24	9000	5800	
			TBERD	TRACK 063.61	12.51	10000	5300	
			PEELR	TRACK 079.68	33.13	15000	10800	
			MTBAL	TRACK 079.71	14.77	15000	8700	
			AVRRY	TRACK 057.20	25.24	15000	7500	
CNERY	STAYY2.CNERY	STAYY	WIILD	TRACK 098.42	13.40	9000	5700	
			FLWRZ	TRACK 079.30	16.65	10000	7000	
			BLCKD	TRACK 078.71	23.94	15000	10800	
			CSTWY	TRACK 078.96	19.59	15000	10800	
			CNERY	TRACK 058.68	23.99	15000	5900	
OTAYY	STAYY2.OTAYY	STAYY	WIILD	TRACK 098.42	13.40	9000	5700	
			WAGAV	TRACK 143.57	15.78	10000	4600	
			OTAYY	TRACK 169.02	35.92	15000	4300	
TCATE	STAYY2.TCATE	STAYY	WIILD	TRACK 098.42	13.40	9000	5700	
			TCATE	TRACK 125.64	56.29	15000	8700	

QUALITY
44
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STAYY	TWO	STAYY2.STAYY	ONE	02/01/2018	20JUNE2019

PROCEDURAL DATA NOTES:

NOTE: RNP 1.
NOTE: RF REQUIRED.
NOTE: GPS REQUIRED.
NOTE: RADAR REQUIRED.
NOTE: TURBOJET ONLY.
NOTE: PARACHUTE JUMPING ALL HOURS, 14000 AND BELOW, NORTH OF ROUTE BETWEEN STAYY AND FNCHH.
NOTE: AIRCRAFT MAY BE VECTORED TO DANAH OR STAYY.

TAKEOFF MINIMUMS:

RWY 2L, 2R, 20L: NA-ATC.
RWY 20R: STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 600.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 20R: 919 FT MSL AAO 333627.20N/1175013.20W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSNA 12E EPOCH YR: 2015.
DME/DME ASSESSMENT: NOT CONDUCTED.
CHART: TOP ALTITUDE: 13000.
CHART: SPEED ICON MAXIMUM SPEED 220 KIAS AT PAPAU.

AIRPORTS SERVED:

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

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

LVELL, WURMO, TTRUE



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REMARKS:

1. MITRE 99TH PERCENTILE WIND STUDY (1/1/2005 - 12/31/2012) VALUES USED IN BIKKL TO HEFAY, HEFAY TO PAPAU, PAPAU TO LARRN, AND LRREN TO HTCHR SEGMENTS.
2. WAIVER ON FILE FOR TURN RADIUS LESS THAN MINIMUM IN BIKKL TO HEFAY RF LEG AND HEFAY TO PAPAU RF LEG.
3. DUE TO OEA CONSTRUCTION GEOMETRY IN SUCCEEDING LEGS, THE STAY TO WILD CONTROLLING OBSTACLE IS DIFFERENT IN THE OTAYY TRANSTION (3613 MSL AAO) THAN THE ONE DEPICTED IN THE CNERY AND TCATE TRANSITIONS (3531 MSL AAO). THE 3613 MSL AAO WAS USED AS WORST CASE FOR THE PUBLISHED MOCA IN THE STAY TO WILD SEGMENT FOR THE CNERY, OTAYY, AND TCATE TRANSITIONS.
4. LVELL, WURMO, AND TTRUE CHARTED AS STAND ALONE WAYPOINTS PER ATC REQUEST.
5. ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY:

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

Digitally signed by

ROBERT G HAMILTON

Feb 08, 2019

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

JIMMY S. HUGHES

Digitally signed by

JIMMY S HUGHES

Jan 23, 2019

OFFICE SYMBOL:

AJV-A422

DATE:

01/22/2019

APPROVED BY:

JULIE MORGAN

Digitally signed by

ROBERT G HAMILTON

Feb 08, 2019

OFFICE SYMBOL:

AJV-A420

DATE:

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:

ZLA, SOCAL APP CON, SNA ATCT, AMGR

CHANGES - REASONS:

1. ADDED NOTE: DO NOT FILE - TO BE ASSIGNED BY ATC. - ATC REQUEST.
2. REPLACED TAKEOFF OBSTACLE NOTES WITH SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP) - IAW AFS WAIVER TO FAAO 8260.46F MEMO.

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DEPARTURE (DATA RECORD)

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
STAYY		TWO		STAYY2.STAYY		ONE		02/01/2018		20JUNE2019	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW20R (AER)	334053.93N/1175154.21W	N	-	-	-	-					
BIKKL	333909.48N/1175300.38W	Y	FB	CF	207.91	1.97	AT/ABOVE 556		RECOMMENDED NAVAID: UTI VOR/DME CG 500 FT PER NM TO 600		
HEFAY	333807.44N/1175317.61W	Y	FB	RF	-	1.07			RECOMMENDED NAVAID: UTI VOR/DME (2.07 NM RADIUS CCW (CFCJQ))		
PAPAU	333709.19N/1175332.46W	Y	FB	RF	-	1.00	AT/BELOW 5000	AT/BELOW 220K	RECOMMENDED NAVAID: UTI VOR/DME (2.08 NM RADIUS CW (CFDSG))		
LRREN	333501.79N/1175400.22W	Y	FB	RF	-	2.18	AT/BELOW 5000		RECOMMENDED NAVAID: UTI VOR/DME (4.03 NM RADIUS CCW (CFFBZ))		
HTCHR	333330.30N/1175327.97W	Y	FB	RF	-	1.60			RECOMMENDED NAVAID: UTI VOR/DME (4.06 NM RADIUS CCW (CFGBM))		
TANGL	333027.00N/1175133.00W	Y	FB	TF	152.28	3.44					
SHIRR	332830.00N/1174630.00W	Y	FB	TF	114.72	4.65	AT/ABOVE 7000				
DANAH	332851.62N/1174154.15W	Y	FB	TF	084.64	3.86					
STAYY	333459.41N/1172901.23W	Y	FB	TF	060.34	12.39	AT/ABOVE 9000				
STAYY	333459.41N/1172901.23W	Y	-	IF	-	-	AT/ABOVE 9000		STAYY2.AVRRY		
FNCHH	333438.20N/1171422.80W	Y	FB	TF	091.58	12.24					
TBERD	333744.21N/1165951.91W	Y	FB	TF	075.61	12.51					
PEELR	333639.62N/1162012.96W	Y	FB	TF	091.68	33.13					
MTBAL	333611.93N/1160232.30W	Y	FB	TF	091.71	14.77					
AVRRY	334507.35N/1153414.56W	Y	FB	TF	069.20	25.24					

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
STAYY	333459.41N/1172901.23W	Y	-	IF	-	-	AT/ABOVE 9000		STAYY2.CNERY
WIILD	333017.34N/1171359.88W	Y	FB	TF	110.42	13.40			
FLWRZ	332953.00N/1165405.90W	Y	FB	TF	091.30	16.65			
BLCKD	332931.77N/1162528.14W	Y	FB	TF	090.71	23.94			
CSTWY	332909.77N/1160203.05W	Y	FB	TF	090.96	19.59			
CNERY	333703.75N/1153456.72W	Y	FB	TF	070.68	23.99			
STAYY	333459.41N/1172901.23W	Y	-	IF	-	-	AT/ABOVE 9000		STAYY2.OTAYY
WIILD	333017.34N/1171359.88W	Y	FB	TF	110.42	13.40			
WAGAV	331553.62N/1170613.02W	Y	FB	TF	155.57	15.78			
OTAYY	323954.45N/1170658.45W	Y	FB	TF	181.02	35.92			
STAYY	333459.41N/1172901.23W	Y	-	IF	-	-	AT/ABOVE 9000		STAYY2.TCATE
WIILD	333017.34N/1171359.88W	Y	FB	TF	110.42	13.40			
TCATE	324829.07N/1162859.88W	Y	FB	TF	137.64	56.29			

