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 statue miles or feet RVR unless otherwise indicated.

DP NAI	ME_					NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	<u>DATED</u>	EFFECTIVE DATE
SAYOW	,					TWO	SAYOW2.SAYOW	ONE	03/02/2017	12 OCT 2017
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV					
			\boxtimes		\boxtimes					

DP ROUTE DESCRIPTION:

TAKEOFF RWY 9: CLIMB HEADING 094.99 TO 520, THEN DIRECT TO CROSS SAYOW AT OR ABOVE 4900, THENCE...

...ON (TRANSITION). JETS MAINTAIN FL190, TURBOPROPS MAINTAIN 15000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	<u>FROM</u> <u>FIX/NAVAID</u>	<u>TO</u> <u>FIX/NAVAID</u>	COURSE	DISTANCE	<u>MEA</u>	MOCA	CROSSING ALTITUDE/FIXES
IMPERIAL	L SAYOW2.IPL SAYOW		CHRJR	TRACK 066.40	7.14	4900		CHRJR AT/ABOVE 7200
			JUNOR	TRACK 066.45	15.81	7200		JUNOR AT/ABOVE 15000
			IPL VORTAC	TRACK 079.96	52.47	15000		
MTBAL	SAYOW2.MTBAL	SAYOW	LEGUE	TRACK 024.99	13.28	4900		LEGUE AT/ABOVE 10000
			JLI VORTAC	TRACK 026.00	20.73	10000		
			NSHEE	TRACK 022.29	18.56	15000		
			MTBAL	TRACK 043.37	21.01	15000		

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: IF UNABLE ALTITUDE RESTRICTION AT JUNOR, ADVISE ATC ON INITIAL CONTACT.

TAKEOFF MINIMUMS:

RWY 27: NA - ATC.

RWY 9: 400-1 WITH MINIMUM CLIMB OF 610 FT PER NM TO 1900 OR STANDARD WITH MINIMUM CLIMB OF 687 FT PER NM TO 1900.

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

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<u>DP NAME</u>	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SAYOW	TWO	SAYOW2.SAYOW	ONE	03/02/2017	12 OCT 2017

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 9: FENCE, TERRAIN, BEGINNING 14 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 14 FT AGL/35 FT MSL. POLE, BUILDING, TERRAIN, FENCE, BEGINNING 21 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/50 FT MSL. SIGN, TERRAIN, BEGINNING 268 FT FROM DER, 137 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/77 FT MSL. TREE, BUILDING, BEGINNING 781 FT FROM DER, 265 FT RIGHT OF CENTERLINE, UP TO 91 FT MSL. BUILDING, TERRAIN, BEGINNING 877 FT FROM DER, 180 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/106 FT MSL. BUILDING 1385 FT FROM DER, 356 FT RIGHT OF CENTERLINE, 55 FT AGL/95 FT MSL. ELECTRIC SYS, TERRAIN, BEGINNING 1395 FT FROM DER, 319 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/138 FT MSL. TREE, TERRAIN, BEGINNING 1822 FT FROM DER, 561 FT LEFT OF CENTERLINE, UP TO 196 FT MSL. TREE 1857 FT FROM DER, 45 FT RIGHT OF CENTERLINE, 45 FT AGL/144 FT MSL. TREE, TERRAIN, BUILDING, BEGINNING 2140 FT FROM DER, 119 FT LEFT OF CENTERLINE, UP TO 198 FT MSL. BUILDING, TERRAIN, BEGINNING 2596 FT FROM DER, 101 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/158 FT MSL. TREE, TERRAIN, BEGINNING 2696 FT FROM DER, 101 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/158 FT MSL. TREE, TERRAIN, BUILDING, POLE, TREE, BEGINNING 2948 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 215 FT MSL. T-L TOWER, TERRAIN, BUILDING, POLE, TREE, BEGINNING 2948 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/216 FT MSL. BUILDING 2965 FT FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 211 FT MSL. BUILDING, TERRAIN, BEGINNING 3857 FT FROM DER, 39 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/216 FT MSL. BUILDING 4376 FT FROM DER, 39 FT RIGHT OF CENTERLINE, UP TO 128 FT AGL/389 FT MSL. BUILDING, BEGINNING 4433 FT FROM DER, 1207 FT RIGHT OF CENTERLINE, UP TO 165 FT AGL/296 FT MSL. ANT ON OL BUILDING 4460 FT FROM DER, 1482 FT LEFT OF CENTERLINE, UP TO 132 FT MSL. BUILDING 450 FT FROM DER, 213 FT LEFT OF CENTERLINE, UP TO 132 FT MSL. BUILDING 6023 FT FROM DER, 134 FT RIGHT OF CENTERLINE, UP TO 132 FT MSL. BUILDING 1 NM FROM DER, 134 FT RIGHT OF CENTERLINE, 234 FT AGL/370 FT MSL. BUILDING 1 N

CONTROLLING OBSTACLES:

RWY 9: 272 FT MSL TOWER (06-027479) 324348.73N/1170953.75W (CLIMB GRADIENT). 403 FT MSL ANTENNA (KSAN0139) 324349.95N/1170934.93W (CEILING). 388 FT MSL TREE (KSANT000081) 324341.29N/1170732.38W (VISIBILITY). 2765 FT MSL AAO 324146.95N/1165610.61W (CG TERM ALT).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSAN 11E EPOCH YR: 2020

DME/DME ASSESSMENT: SAT (RNP 2.0).

CHART: TOP ALTITUDE: (JETS) FL190 / (TURBOPROPS) 15000.

AIRPORTS SERVED:

AIRPORT NAME

SAN DIEGO INTL

SAN DIEGO

CA

CA

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

ONALITY 3 CHECKED

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

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<u>DP NAME</u>	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SAYOW	TWO	SAYOW2.SAYOW	ONE	03/02/2017	12 OCT 2017

OFFICE SYMBOL:

OFFICE SYMBOL:

AJV-5422

OFFICE SYMBOL:

AJV-5420

FICO

DATE:

6/29/17

DATE:

04/27/2017

DATE:

REMARKS:

- 1. WAIVER ON FILE FOR ICA LENGTH IN EXCESS OF 10 NM(S).
- 2. AFS APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT PER NM.
- 3. MOCA(S) NOT CHARTED PER ATC REQUEST.
- 4. ABBREVIATED AMENDMENT, DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

FLIGHT INSPECTED BY: Digitally signed by

BRYAN VEIT ROBERT G HAMILTON

Aug 11, 2017

DEVELOPED BY: Digitally signed by

PETER GUIMOND PETER R GUIMOND

Apr 27, 2017

APPROVED BY: Digitally signed by

JULIE MORGAN ROBERT G HAMILTON

Aug 11, 2017

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	NBAA
\boxtimes	\boxtimes	\boxtimes	\boxtimes		\boxtimes

OTHER:

ZLA. SAN APP CON. SAN ATCT. AMGR

CHANGES - REASONS:

- 1. AMENDED RWY 9 DEPARTURE ROUTE DESCRIPTION FROM CLIMB HEADING 094.99 TO 520, THEN DIRECT SAYOW AT/ABOVE 4900 THEN ON (TRANSITION). TUROBJETS MAINTAIN FL190, TURBOPROPS MAINTAIN 15000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE TO READ CLIMB HEADING 094.99 TO 520, THEN DIRECT TO CROSS SAYOW AT OR ABOVE 4900, THENCE ON (TRANSITION). JETS MAINTAIN FL190, TURBOPROS MAINTAIN 15000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE STANDARDIZE CROSSING RESTRICTION WORDING WITH OTHER SIDS AT AIRPORT. TURBOJETS CHANGED TO JETS TO MATCH PUBLISHED TOP ALTITUDE WORDING.
- 2. AMENDED RW09 AER COORDINATES (DISPLACED) FROM 324411.73N/1171207.80W TO 324410.92N/1171204.43W ON FAA FORM 8260-15C MATCH ACTIVE AIRNAV DATA FOR RWY.
- 3. AMENDED RW09 DISPLACMENT FROM 700 FEET TO 1000 FEET IN REMARKS ON FAA FORM 8260-15C MATCH ACTIVE AIRNAV DATA FOR RWY DISPLACEMENT.
- 4. ADDED RWY 27 NA ATC TO TAKEOFF MINIMUMS IN ACCORDANCE WITH FAAO 8260,46F, APPENDIX E. PARA 6A.

3 CHECKED

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

DP NAME							NUMBER	DP COMI	PUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SAYOW							TWO	SAYO	W2.SAYOW	ONE	03/02/2017	12 OCT 2017
FIX/NAVAID	VAID LAT/LONG C FO/FB LEG TC (NM) ALTITUDE		JDE_	SPEED	REMARKS							
RW09 (AER)*	324410.92N/1171204.43W*	Ν	-	-	-	-				*DISPL THLD (1000.00 FT)		
520 MSL	-	-	-	VA	105.99	-				400-1 WITH MINIMUM CLIMB OF 610 FT/NM TO 1900 OR STANDARD WITH MINIMUM CLIMB OF 687 TO 1900		
SAYOW	324105.53N/1165916.67W	Υ	FB	DF	-	-	AT/ABOVI	E 4900				
SAYOW	324105.53N/1165916.67W	Υ	-	IF	-	-	AT/ABOVI	E 4900		SAYOW2.IPL		
CHRJR	324238.90N/1165101.00W	Υ	FB	TF	077.40	7.14	AT/ABOVI	E 7200				
JUNOR	324604.05N/1163243.12W	Υ	FB	TF	077.45	15.81	AT/ABOVE	15000				
IPL VORTAC	324455.92N/1153030.90W	Υ	FB	TF	090.96	52.47						
SAYOW	324105.53N/1165916.67W	Υ	-	IF	-	-	AT/ABOVI	E 4900		SAYOW2.MTBAL		
LEGUE	325151.00N/1165001.00W	Υ	FB	TF	035.99	13.28	AT/ABOVE	10000				
JLI VORTAC	330825.65N/1163509.37W	Υ	FB	TF	037.00	20.73						
NSHEE	332357.70N/1162259.20W	Υ	FB	TF	033.29	18.56						
MTBAL	333611.93N/1160232.30W	Υ	FB	TF	054.37	21.01						