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DP NAM						<u>NUMBER</u> TWO	MMOTO2.MMOTO	SUPERSEDED NUMBER ONE	DATED 03/02/2017	EFFECTIVE DATE 12 OCT 2017
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV					

DP ROUTE DESCRIPTION:

TAKEOFF RWY 9: CLIMB HEADING 094.99 TO 4000, THEN LEFT TURN DIRECT BAUCA, THEN ON TRACK 307.40 TO ECHHO, THEN ON TRACK 307.69 TO CROSS GOFUR AT OR ABOVE 15000, THEN ON TRACK 306.12 TO CROSS MMOTO AT OR BELOW FL190, THENCE...

TAKEOFF RWY 27: CLIMB HEADING 275.00 TO 520, THEN RIGHT TURN DIRECT LANDN, THEN ON TRACK 330.30 TO ECHHO, THEN ON TRACK 307.69 TO CROSS GOFUR AT OR ABOVE 15000, THEN ON TRACK 306.12 TO CROSS MMOTO AT OR BELOW FL190, THENCE...

...ON (TRANSITION) MAINTAIN ALTITUDE ASSIGNED BY ATC, 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
DINTY	MMOTO2.DINTY	ММОТО	SXC VORTAC	TRACK 269.04	36.98	14000		
			DINTY	TRACK 261.92	209.19	14000		
MALIT	MMOTO2.MALIT	ММОТО	SXC CORTAC	TRACK 269.04	36.98	14000		
			MALIT	TRACK 217.00	80.00	14000		

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: GPS REQUIRED.

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

NOTE: DINTY TRANSITION ATC ONLY.

TAKEOFF MINIMUMS:

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.

RWY 27: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000.



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DP NAMENUMBERDP COMPUTER CODE
MMOTOSUPERSEDED NUMBER
ONEDATED
03/02/2017EFFECTIVE DATETWOMMOTO2.MMOTOONE03/02/201712 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 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, 561 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. TREES, TERRAIN, BEGINNING 2696 FT FROM DER, 101 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/158 FT MSL. TREE, TERRAIN, BUILDING, TERRAIN, BUILDING, 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 RIGHT OF CENTERLINE, UP TO 211 FT MSL. BUILDING, TERRAIN, BU

NOTE: RWY 27: POLE 192 FT FROM DER, 347 FT RIGHT OF CENTERLINE, 17 FT AGL/29 FT MSL. NAVAID 284 FT FROM DER, 317 FT LEFT OF CENTERLINE, 19 FT AGL/28 FT MSL. TREE 754 FT FROM DER, 156 FT RIGHT OF CENTERLINE, 24 FT AGL/34 FT MSL. TREE 1021 FT FROM DER, 620 FT RIGHT OF CENTERLINE, 71 FT MSL. POLE 2515 FT FROM DER, 707 FT LEFT OF CENTERLINE, 103 FT AGL/118 FT MSL. TREE 2594 FT FROM DER, 353 FT RIGHT OF CENTERLINE, 90 FT AGL/107 FT MSL. TREE 3179 FT FROM DER, 410 FT RIGHT OF CENTERLINE, 111 FT MSL. TREE 3494 FT FROM DER, 947 FT RIGHT OF CENTERLINE, 169 FT MSL. TOWER 3675 FT FROM DER, 14 FT RIGHT OF CENTERLINE, 60 FT AGL/115 FT MSL. TREE 4248 FT FROM DER, 403 FT LEFT OF CENTERLINE, 75 FT AGL/150 FT MSL. TREE 4441 FT FROM DER, 1199 FT RIGHT OF CENTERLINE, 111 FT AGL/199 FT MSL. TREES, BEGINNING 5046 FT FROM DER, 7 FT LEFT OF CENTERLINE, UP TO 96 FT AGL/235 FT MSL. TREE, BUILDING, BEGINNING 5693 FT FROM DER, 272 FT RIGHT OF CENTERLINE, UP TO 227 FT MSL. TREE 6050 FT FROM DER, 1703 FT LEFT OF CENTERLINE, 256 FT MSL. TREES, BEGINNING 1 NM FROM DER, 532 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/238 FT MSL. TREE 1.9 NM FROM DER, 3367 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/238 FT MSL. TREE 1.9 NM FROM DER, 3367 FT LEFT OF CENTERLINE, BUILDING, 65 FT AGL/328 FT MSL.

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).

RWY 27: 169 FT MSL TREE (KSAN0040) 324432.18W/1171251.95W (CLIMB GRADIENT). 328 FT MSL TREE (KSANT000047) 324413.30N/1171437.39W (CEILING/VISIBILITY).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSAN 11E EPOCH YR: 2020 DME/DME ASSESSMENT: NOT CONDUCTED. CHART: TOP ALTITUDE: ASSIGNED BY ATC.

ONALITY 3 CHECKED

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<u>DP NAME</u>	<u>NUMBER</u>	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
MMOTO	TWO	MMOTO2.MMOTO	ONE	03/02/2017	12 OCT 2017
AIRPORTS SERVED:					
AIRPORT NAME			CITY		STATE
SAN DIEGO INTL		SA	N DIEGO		CA

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, TOWER, SOCAL DEP CON EAST/WEST.

FIXES AND/OR NAVAIDS:

ONALITY 3 CHECKED

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<u>DP NAME</u>	<u>NUMBER</u>	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
ммото	TWO	MMOTO2.MMOTO	ONE	03/02/2017	12 OCT 2017

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

DATE:

FLOO

6/29/17

BRYAN VEIT ROBERT G HAMILTON FICO

Aug 11, 2017

DEVELOPED BY: Digitally signed by Digitally signed by

APPROVED BY:

Digitally signed by

OFFICE SYMBOL:

DATE:

JULIE MORGAN Aug 11, 2017 AJV-5420

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 CROSSING RESTRICTION AT GOFUR FROM AT OR ABOVE 14000 TO AT OR ABOVE 15000 ATC REQUEST TO DECONFLICT WITH LAX ARRIVALS.
- 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.

NFDD 159 8/17/2017 105

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

DP NAME							NUMBER	DP COMPUTER CO	DDE SUPERSEDED NUMBER	DATED	EFFECTIVE DAT
MMOTO							TWO	MMOTO2.MMOT		03/02/2017	12 OCT 2017
FIX/NAVAID	LAT/LONG	<u>c</u>	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITU			REMARKS	12 001 201
RW09 (AER)*	324410.92N/1171204.43W*	N			-	-			*DISPL THLD (1000.00 FT)	
4000 MSL	-	-	-	VA	105.99	-			400-1 WITH MINIMUM CLI STANDARD WITH MINIMU		
BAUCA	325136.76N/1171538.05W	Υ	FB	DF	-	-			LEFT TURN		
ECHHO	325801.44N/1172223.40W	Υ	FB	TF	318.40	8.56					
GOFUR	331029.72N/1173526.14W	Υ	FB	TF	318.69	16.59	AT/ABOVE	15000			
ММОТО	331610.43N/1174142.94W	Υ	FB	TF	317.12	7.74	AT/BELOW	FL190			
RW27 (AER)*	324352.94N/1171050.26W*	N	-	-	-	-			*DISPL THLD (1810.0 FT)		
520 MSL	-	-	-	VA	286.00	-			CG 500 FT/NM TO 4000		
LANDN	324737.02N/1171812.59W	Υ	FB	DF	-	-					
ЕСННО	325801.44N/1172223.40W	Υ	FB	TF	341.30	10.97					
GOFUR	331029.72N/1173526.14W	Υ	FB	TF	318.69	16.59	AT/ABOVE	15000			
ММОТО	331610.43N/1174142.94W	Υ	FB	TF	317.12	7.74	AT/BELOW	FL190			
ММОТО	331610.43N/1174142.94W	Y	-	IF	-	-	AT/BELOW	FL190	MMOTO2.DINTY		
SXC VORTAC	332230.20N/1182511.68W	Υ	FB	TF	280.04	36.98					
DINTY	332858.49N/1223502.38W	Y	FB	TF	272.92	209.19					
ММОТО	331610.43N/1174142.94W	Y	-	IF	-	-	AT/BELOW	FL190	MMOTO2.MALIT		
SXC VORTAC	332230.20N/1182511.68W	Y	FB	TF	280.04	36.98					
MALIT	322832.13N/1193528.25W	Υ	FB	TF	228.00	80.00					oval/>
											3