

**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SUPERSEDED NUMBER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> |
|----------------|---------------|-------------------------|--------------------------|--------------|------------------------------|
| MMOTO | THREE | MMOTO3.MMOTO | TWO | 10/12/2017 | |

| <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 9: CLIMB ON 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 ON 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 ATC ASSIGNED ALTITUDE, 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> |
|------------------------|---------------------------------|------------------------|----------------------|---------------|-----------------|------------|-------------|--------------------------------|
| DINTY | MMOTO3.DINTY | MMOTO | SXC VORTAC | TRACK 269.04 | 36.98 | 14000 | 4400 | |
| | | SXC VORTAC | DINTY | TRACK 261.92 | 209.19 | 14000 | 4400 | |
| MALIT | MMOTO3.MALIT | MMOTO | SXC VORTAC | TRACK 269.04 | 36.98 | 14000 | 4400 | |
| | | SXC VORTAC | MALIT | TRACK 217.00 | 80.00 | 14000 | 4400 | |

PBN REQUIREMENT NOTES:

NOTE: RNAV 1 - GPS.

EQUIPMENT REQUIREMENT NOTES:

NOTE: RADAR REQUIRED.

PROCEDURAL DATA NOTES:

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/NM TO 1900 OR STANDARD WITH MINIMUM CLIMB OF 823 FT//NM TO 1900.

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

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 9: 281 FT MSL TREE (06-251207) 324351.80N/1170957.22W (823 CLIMB GRADIENT), 2766 FT MSL TERRAIN 324148.00N/1165612.00W (CLIMB GRADIENT TERMINATION ALTITUDE), 383 FT MSL BUILDING (06-248106) 324349.80N/1170934.90W (VISIBILITY), 389 FT MSL BUILDING (06-022522) 324350.98N/1170935.18W (CEILING).

RWY 27: 175 FT MSL TREE (06-042187) 324432.17N/1171251.97W (CLIMB GRADIENT). 237 FT MSL TREE (06-142003) 324413.65N/1171317.16W (CLIMB GRADIENT TERMINATION ALTITUDE).



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MSA:
SAN, 5400.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:
AIRPORT MV: SAN 11E/2020
DME/DME ASSESSMENT: NOT CONDUCTED.
CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

| <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> |
|-------------------|-------------|--------------|
| SAN | SAN DIEGO | CA |

COMMUNICATIONS:

CHART: ATIS, CLNC DEL, GND CON, TOWER.

FIXES AND/OR NAVAIDS:

REMARKS:
1. WAIVER ON FILE FOR ICA LENGTH IN EXCESS OF 10 NM(S). DUE TO CLIMB GRADIENT BOTH THE 610 AND 823 ICA ARE OVER 10 NM(S).
2. AFS APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT PER NM.
3. ABBREVIATED AMENDMENT.
4. 100FT VEG USED PER FPT.

| <u>FLIGHT INSPECTED BY</u> | <u>SIGNATURE</u> | <u>OFFICE</u> | <u>DATE</u> |
|----------------------------|------------------|---------------|-------------|
| | | | |

| <u>DEVELOPED BY</u> | <u>SIGNATURE</u> | <u>OFFICE</u> | <u>DATE</u> |
|--|------------------|---------------|-------------|
| ROBERT G HAMILTON (MATTHEW W.TOWNSEND) | | AJV-A433 | 06/10/2025 |

| <u>APPROVED BY</u> | <u>SIGNATURE</u> | <u>OFFICE</u> | <u>DATE</u> | <u>TITLE</u> |
|--------------------|------------------|---------------|-------------|--------------|
| ROBERT G HAMILTON | | AJV-A433 | 01/22/2026 | MANAGER |

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

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

CHANGES - REASONS:

1. DP ROUTE DESCRIPTION: UPDATED RWY 9 FROM "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..." TO "CLIMB ON 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..." - ADDED "ON" PER 8260.46K.
2. TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): ADDED MOCA INFO FOR ALL TRANSITIONS AND ADDED FROM FIX/NAVAIDS TO ALL ROUTES- IAW 8260.46K 3-1-1.J.2.B AND SECTION 2.2.D.4.
3. PBN REQUIREMENTS NOTES: ADDED "NOTE: RNAV 1 - GPS" - MOVED FROM PROCEDURAL DATA NOTES AND IAW 8260.46K 2-1-5.I.3.E.
4. EQUIPMENT REQUIREMENTS NOTE: ADDED "RADAR REQUIRED" - MOVED FROM PROCEDURAL DATA NOTES AND IAW 8260.46K 2-1-5.J.
5. TAKEOFF MINIMUMS: UPDATED RWY 9 FROM "400-1 WITH MINIMUM CLIMB OF 610 FT PER NM TO 1900 OR STANDARD WITH MINIMUM CLIMB OF 687 FT PER NM TO 1900" TO "400-1 WITH MINIMUM

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| MMOTO | THREE | MMOTO3.MMOTO | TWO | 10/12/2017 | |

CLIMB OF 610 FT/NM TO 1900 OR STANDARD WITH MINIMUM CLIMB OF 823 FT/NM TO 1900" - CLEARS NOTAM FDC 5/4295 AND NEW CONTROLLING OBSTACLE.
6. TAKEOFF MINIMUMS: UPDATED RWY 27 FROM "STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000" TO "STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 4000" - IAW 8260.46K.
7. TAKEOFF OBSTACLE NOTES: REMOVED TAKEOFF OBSTACLE NOTES AND UPDATED TO "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)" - ODP ESTABLISHED AND IAW 8260.46K APPENDIX E SECTION 1 2.I.
8. CONTROLLING OBSTACLES: UPDATED CONTROLLING OBSTACLES ALL RUNWAYS - UPDATED TARGETS EVALUATION.
9. MSA: ADDED "SAN, 5400" - IAW 82604.46K APPENDIX E SECTION 1 2.K.
10. COMMUNICATIONS: REMOVED "SOCAL DEP CON (EAST)" - IAW 8260.46K SECTION 2 FAA FORM 15B 2.O.
11. REMARKS: REMOVED "3. MOCA(S) NOT CHARTED PER ATC REQUEST" AND ADDED "4. 100FT VEG USED PER FPT" - IAW 82604.46K APPENDIX E SECTION 1 2.Q.



**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> | | | | |
|-------------------|-------------------------|-------------------------|--------------------------|-----------------|------------------------------|------------------|-----------------|--------------|---|
| MMOTO | THREE | MMOTO3.MMOTO | TWO | 10/12/2017 | | | | | |
| <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> |
| RW09 (AER)* | 324410.92N/1171204.43W* | N | - | - | - | - | | | *DISPL THLD (1000.00 FT) |
| 4000 MSL | - | - | - | VA | 105.99 | - | AT/ABOVE 4000 | | 400-1 WITH MINIMUM CLIMB OF 610 FT/NM TO 1900 OR STANDARD WITH MINIMUM CLIMB OF 823 TO 1900 |
| BAUCA | 325136.76N/1171538.05W | Y | FB | DF | - | - | | | LEFT TURN |
| ECHHO | 325801.44N/1172223.40W | Y | FB | TF | 318.40 | 8.56 | | | |
| GOFUR | 331029.72N/1173526.14W | Y | FB | TF | 318.69 | 16.59 | AT/ABOVE 15000 | | |
| MMOTO | 331610.43N/1174142.94W | Y | FB | TF | 317.12 | 7.74 | AT/BELOW FL190 | | |
| RW27 (AER)* | 324352.94N/1171050.27W* | N | - | - | - | - | | | *DISPL THLD (1810.0 FT) |
| 520 MSL | - | - | - | VA | 286.00 | - | AT/ABOVE 520 | | CG 500 FT/NM TO 4000 |
| LANDN | 324737.02N/1171812.59W | Y | FB | DF | - | - | | | |
| ECHHO | 325801.44N/1172223.40W | Y | FB | TF | 341.30 | 10.97 | | | |
| GOFUR | 331029.72N/1173526.14W | Y | FB | TF | 318.69 | 16.59 | AT/ABOVE 15000 | | |
| MMOTO | 331610.43N/1174142.94W | Y | FB | TF | 317.12 | 7.74 | AT/BELOW FL190 | | |
| MMOTO | 331610.43N/1174142.94W | Y | - | IF | - | - | AT/BELOW FL 190 | | MMOTO3.DINTY |
| SXC VORTAC | 332230.20N/1182511.68W | Y | FB | TF | 280.04 | 36.98 | | | |
| DINTY | 332858.49N/1223502.38W | Y | FB | TF | 272.92 | 209.19 | | | |
| MMOTO | 331610.43N/1174142.94W | Y | - | IF | - | - | AT/BELOW FL 190 | | MMOTO3.MALIT |
| SXC VORTAC | 332230.20N/1182511.68W | Y | FB | TF | 280.04 | 36.98 | | | |
| MALIT | 322832.13N/1193528.25W | Y | FB | TF | 228.00 | 80.00 | | | |

