

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.

City, State	Airport	Effective Date	Amdt. No.
SAN DIEGO, CA	SAN DIEGO INTL	10 NOVEMBER 2016	9

TAKEOFF MINIMUMS:

RWY 9, 400-1¾ WITH MINIMUM CLIMB OF 290 FT PER NM TO 900.
RWY 27, 400-2½ OR STANDARD WITH MINIMUM CLIMB OF 353 FT PER NM TO 500.

TEXTUAL DEPARTURE PROCEDURES:

RWY 9: CLIMB HEADING 094.99 TO 900, THEN CLIMBING LEFT TURN DIRECT MZB VORTAC. THENCE...
RWY 27: CLIMB HEADING 275.01 TO 900, THEN CLIMBING RIGHT TURN DIRECT MZB VORTAC. THENCE...

...AIRCRAFT DEPARTING MZB VORTAC R-180 CW R-360 CLIMB ON COURSE. ALL OTHERS CLIMB IN MZB VORTAC HOLDING PATTERN (HOLD W, RT, 075 INBOUND) TO CROSS MZB VORTAC AT OR ABOVE 2300 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 09, FENCE, TERRAIN, BEGINNING 14 FEET FROM DER, 67 FEET LEFT OF CENTERLINE, UP TO 14 FEET AGL/35 FEET MSL. POLE, BLDG, TERRAIN, FENCE, BEGINNING 21 FEET FROM DER, 8 FEET RIGHT OF CENTERLINE, UP TO 35 FEET AGL/50 FEET MSL. SIGN, TERRAIN, BEGINNING 268 FEET FROM DER, 137 FEET LEFT OF CENTERLINE, UP TO 50 FEET AGL/77 FEET MSL. TREE, BLDG, BEGINNING 781 FEET FROM DER, 265 FEET RIGHT OF CENTERLINE, UP TO 91 FEET MSL. BLDG, TERRAIN, BEGINNING 877 FEET FROM DER, 180 FEET LEFT OF CENTERLINE, UP TO 66 FEET AGL/106 FEET MSL. BLDG 1385 FEET FROM DER, 356 FEET RIGHT OF CENTERLINE, 55 FEET AGL/95 FEET MSL. ELEC SYS, TERRAIN, BEGINNING 1395 FEET FROM DER, 319 FEET LEFT OF CENTERLINE, UP TO 44 FEET AGL/138 FEET MSL. TREE, TERRAIN, BEGINNING 1822 FEET FROM DER, 561 FEET LEFT OF CENTERLINE, UP TO 196 FEET MSL. TREE 1857 FEET FROM DER, 45 FEET RIGHT OF CENTERLINE, 45 FEET AGL/144 FEET MSL. TREE, TERRAIN, BLDG, BEGINNING 2140 FEET FROM DER, 119 FEET LEFT OF CENTERLINE, UP TO 198 FEET MSL. BLDG, TERRAIN, BEGINNING 2596 FEET FROM DER, 101 FEET RIGHT OF CENTERLINE, UP TO 89 FEET AGL/158 FEET MSL. TREES, TERRAIN, BEGINNING 2681 FEET FROM DER, 190 FEET LEFT OF CENTERLINE, UP TO 215 FEET MSL. T-L TWR, TERRAIN, BLDG, POLE, TREE, BEGINNING 2948 FEET FROM DER, 40 FEET LEFT OF CENTERLINE, UP TO 67 FEET AGL/272 FEET MSL. TREE, TERRAIN, BLDG, BEGINNING 2965 FEET FROM DER, 30 FEET RIGHT OF CENTERLINE, UP TO 211 FEET MSL. BLDG, TERRAIN, BEGINNING 3857 FEET FROM DER, 39 FEET RIGHT OF CENTERLINE, UP TO 44 FEET AGL/216 FEET MSL. BLDG 4376 FEET FROM DER, 1295 FEET LEFT OF CENTERLINE, 117 FEET AGL/364 FEET MSL. BLDG, TERRAIN, BEGINNING 4410 FEET FROM DER, 322 FEET LEFT OF CENTERLINE, UP TO 128 FEET AGL/389 FEET MSL. BLDG, BEGINNING 4433 FEET FROM DER, 1207 FEET RIGHT OF CENTERLINE, UP TO 165 FEET AGL/296 FEET MSL. ANT ON OL BLDG 4460 FEET FROM DER, 1482 FEET LEFT OF CENTERLINE, 403 FEET MSL. TERRAIN, BLDG, TREE, POLE, BEGINNING 4510 FEET FROM DER, 213 FEET LEFT OF CENTERLINE, UP TO 132 FEET MSL. TREE, BLDG, BEGINNING 5159 FEET FROM DER, 325 FEET RIGHT OF CENTERLINE, UP TO 113 FEET AGL/301 FEET MSL. BLDG 6023 FEET FROM DER, 1934 FEET RIGHT OF CENTERLINE, 224 FEET AGL/370 FEET MSL. BLDG 1 NM FROM DER, 1543 FEET RIGHT OF CENTERLINE, 234 FEET AGL/372 FEET MSL. BLDG, TREE, BEGINNING 1 NM FROM DER, 21 FEET RIGHT OF CENTERLINE, UP TO 287 FEET AGL/401 FEET MSL. MONUMENT 1.3 NM FROM DER, 1339 FEET LEFT OF CENTERLINE, 53 FEET AGL/310 FEET MSL. POLE 1.3 NM FROM DER, 1721 FEET LEFT OF CENTERLINE, 35 FEET AGL/306 FEET MSL. STACK, TREE, BEGINNING 1.4 NM FROM DER, 501 FEET LEFT OF CENTERLINE, UP TO 170 FEET AGL/374 FEET MSL. TREE 1.9 NM FROM DER, 490 FEET LEFT OF CENTERLINE, 330 FEET MSL.

NOTE: RWY 27, POLE 192 FEET FROM DER, 347 FEET RIGHT OF CENTERLINE, 17 FEET AGL/29 FEET MSL. NAVAID 284 FEET FROM DER, 317 FEET LEFT OF CENTERLINE, 19 FEET AGL/28 FEET MSL. TREE 754 FEET FROM DER, 156 FEET RIGHT OF CENTERLINE, 24 FEET AGL/34 FEET MSL. TREE 1021 FEET FROM DER, 620 FEET RIGHT OF CENTERLINE, 71 FEET MSL. POLE 2515 FEET FROM DER, 707 FEET LEFT OF CENTERLINE, 103 FEET AGL/118 FEET MSL. TREE 2594 FEET FROM DER, 353 FEET RIGHT OF CENTERLINE, 90 FEET AGL/107 FEET MSL. TREE 3179 FEET FROM DER, 410 FEET RIGHT OF CENTERLINE, 111 FEET MSL. TREE 3494 FEET FROM DER, 947 FEET RIGHT OF CENTERLINE, 169 FEET MSL. TOWER 3675 FEET FROM DER, 14 FEET RIGHT OF CENTERLINE, 60 FEET AGL/115 FEET MSL. TREE 4248 FEET FROM DER, 403 FEET LEFT OF CENTERLINE, 75 FEET AGL/150 FEET MSL. TREE 4441 FEET FROM DER, 1199 FEET RIGHT OF CENTERLINE, 111 FEET AGL/199 FEET MSL. TREES, BEGINNING 5046 FEET FROM DER, 7 FEET LEFT OF CENTERLINE, UP TO 96 FEET AGL/235 FEET MSL. ,TREE, BLDG, BEGINNING 5693 FEET FROM DER, 272 FEET RIGHT OF CENTERLINE, UP TO 227 FEET MSL. TREE 6050 FEET FROM DER, 1703 FEET LEFT OF CENTERLINE, 256 FEET MSL. TREES, BEGINNING 1 NM FROM DER, 532 FEET LEFT OF CENTERLINE, UP TO 65 FEET AGL/261 FEET MSL. BLDG LT, TREE, BEGINNING 1 NM FROM DER, 257 FEET RIGHT OF CENTERLINE, UP TO 40 FEET AGL/238 FEET MSL. TREE 1.9 NM FROM DER, 3367 FEET LEFT OF CENTERLINE, 65 FEET AGL/328 FEET MSL.

CONTROLLING OBSTACLES:

RWY 9: 403 FT MSL ANTENNA ON LIGHTED BUILDING 324349.95N/1170934.93W (CEILING). 374 FT MSL LIGHTED STACK 324333.99N/1170846.87W (VIS). 836 FT MSL TOWER 324349.00N/1170505.00W (CG/CTA).
RWY 27: 169 FT MSL TREE 324432.18W/1171251.95W (CG), 339 FT MSL TREE 324422.95N/1171419.48W (CTA), 379 FT MSL TREE 324411.85N/1171433.22W (CEILING/VIS).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 9: 6712 FT MSL AAO 325649.30N/1163610.60W
RWY 27: 6712 FT MSL AAO 325649.30N/1163610.60W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.

City, State	Airport	Effective Date	Amdt. No.
SAN DIEGO, CA	SAN DIEGO INTL	10 NOVEMBER 2016	9

REMARKS:

PER FPT USED 100 FT VEGETATION.
PER ATC/FPT NO VCOA DEVELOPED.
LETTER OF APPROVAL ON FILE FOR CEILING AND VISIBILITY REQUIREMENT AND 290 FEET PER NM CLIMB GRADIENT IN LIEU OF 986 FEET PER NM CLIMB GRADIENT.

FLIGHT INSPECTED BY:

JOEL F HAWKLEY

FICO

Digitally signed by

JACOB POWERS

Sep 14, 2016

06/23/16

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

PHILLIP BRANDENBURG

AJV-5432

Digitally signed by

PHILLIP BRANDENBURG

Apr 26, 2016

4/14/16

APPROVED BY:

LONNIE EVERHART

AJV-5430

Digitally signed by

JACOB POWERS

Sep 14, 2016

COORDINATED WITH:

ALPA, AOPA, NBAA, ZLA, SOCAL APP, SAN APCH, AMGR

CHANGES:

1. UPDATED TAKEOFF OBSTACLE NOTES.

REASONS:

1. TO COINCIDE WITH OTHER PROCEDURE AMENDMENTS FOR THIS AIRPORT.

QUALITY
3
CHECKED