

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.
CARLSBAD, CA	MC CLELLAN-PALOMAR	21 JULY 2016	5

TAKEOFF MINIMUMS:

RWY 24: STANDARD.
RWY 06: STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 1700 OR 2700-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 06: CLIMBING LEFT TURN HEADING 245.14 TO 3000 BEFORE PROCEEDING ON COURSE. DO NOT EXCEED 210 KIAS UNTIL ESTABLISHED ON HEADING 245.14.
RWY 24: CLIMB HEADING 245.14 TO 2400 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 06: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS MC CLELLAN-PALOMAR AIRPORT AT OR ABOVE 2900 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 06: FENCE BEGINNING 6 FT FROM DER, 453 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/328 FT MSL. OBSTRUCTION LIGHT ON BLAST FENCE BEGINNING 96 FT FROM DER, 398 FT RIGHT OF CENTERLINE, UP TO 18 FT AGL/332 FT MSL. TREE 325 FT FROM DER, 508 FT LEFT OF CENTERLINE, 347 FT MSL. TREES BEGINNING 519 FT FROM DER, 504 FT LEFT OF CENTERLINE, UP TO 379 FT MSL. TREE 3682 FT FROM DER, 945 FT LEFT OF CENTERLINE, 424 FT MSL. TREES, EQUIPMENT ON BUILDING, OBSTRUCTION LIGHT ON FLAGPOLE BEGINNING 3682 FT FROM DER, 333 FT LEFT OF CENTERLINE, UP TO 428 FT MSL. TREES BEGINNING 4032 FT FROM DER, 489 FT LEFT OF CENTERLINE, UP TO 439 FT MSL. TREES, LIGHT POLES BEGINNING 4040 FT FROM DER, 318 FT RIGHT OF CENTERLINE, UP TO 445 FT MSL. LIGHT POLES BEGINNING 4705 FT FROM DER, 485 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/457 FT MSL. TREES 4866 FT FROM DER, 988 FT LEFT OF CENTERLINE, 457 FT MSL. TREES BEGINNING 4944 FT FROM DER, 431 FT RIGHT OF CENTERLINE, UP TO 465 FT MSL. LIGHT POLES BEGINNING 4985 FT FROM DER, 536 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/468 FT MSL. TREE, LIGHT POLES BEGINNING 5123 FT FROM DER, 576 FT RIGHT OF CENTERLINE, UP TO 476 FT MSL. TREES 5493 FT FROM DER, 753 FT RIGHT OF CENTERLINE, 489 FT MSL. TREES, LIGHT POLES BEGINNING 5663 FT FROM DER, 569 FT RIGHT OF CENTERLINE, UP TO 502 FT MSL. TREES 6015 FT FROM DER, 896 FT RIGHT OF CENTERLINE, 507 FT MSL. TREE 1.1 NM FROM DER, 1131 FT RIGHT OF CENTERLINE, 506 FT MSL.
NOTE: RWY 24: TERRAIN BEGINNING 25 FT FROM DER, 287 FT RIGHT OF CENTERLINE, UP TO 339 FT MSL. BUSH 36 FT FROM DER, 276 FT RIGHT OF CENTERLINE, 340 FT MSL. TREE 106 FT FROM DER, 520 FT LEFT OF CENTERLINE, 342 FT MSL.

CONTROLLING OBSTACLES:

RWY 06: 1880 FT MSL AAO 331243.90N/1171102.76W.
RWY 06 (VCOA): 1400 FT MSL AAO 330641.00N/1171210.00W, 6340 FT MSL AAO 332149.00N/1165011.00W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 06/24: 6340 FT MSL AAO 332149.00N/1165011.00W.

QUALITY
3
CHECKED

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REMARKS:

1000 FT OF ROC EXIST OVER OBSTACLE 6340 FT MSL AAO 332149.00N/1165011.00W.
AMD'T REQUIRED TO CLEAR FDC NOTAM 5/2672.

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

Digitally signed by
GARY J VEER **BEV L BORDY** FICO 04/15/2016
Apr 21, 2016

ROUTINE

DEVELOPED BY:

Digitally signed by
RALPH DUMAR **RALPH DUMAR** AJV-5432 01/26/2016
Apr 01, 2016

APPROVED BY:

Digitally signed by
LONNIE EVERHART **BEV L BORDY** AJV-5430
Apr 21, 2016

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, SOCAL DEP CON, ZLA

CHANGES:

1. RWY 06 TAKEOFF MINS: REDUCED CLIMB GRADIENT FROM 260 TO 255 FT PER NM AND CG TERMINATION ALTITUDE FROM 2100 TO 1700. REMOVED 1400-2 CEILING/VIS REQUIREMENT.
2. RWY 06 TEXTUAL DEP: LOWERED CLIMB-TO ALTITUDE FROM 3100 TO 3000; ADDED SPEED RESTRICTION.
3. RWY 06: ADDED VCOA INSTRUCTIONS AND ASSOCIATED TAKEOFF MINIMUMS.
4. RWY 24 TEXTUAL DEP: REPLACED 'RUNWAY HEADING' WITH 'HEADING 245' AND LOWERED CLIMB-TO ALTITUDE FROM 2800 TO 2400.
5. REWORDED TEXTUAL DEPARTURE PROCEDURE INSTRUCTIONS.
6. ADDED TAKEOFF OBSTACLE NOTES FOR BOTH RUNWAYS.

REASONS:

1. SPEED RESTRICTION SHORTENED TURN RADIUS THUS AVOIDING HIGHER TERRAIN EAST OF AIRPORT. CEILING/VIS REPLACED BY VCOA CEILING/VIS.
2. CTA LOWERED TO MATCH V23-363-597 MEA. SPEED RESTRICTION ADDED TO LOWER CG AND TERMINATION ALT REQUIREMENT.
3. DUE TO 255 FPNM CG AND OBS PENETRATIONS OUTSIDE OF 3 SM FROM DER.
4. UPDATED EVALUATION METHODS ALLOWED FOR 400 FT CLIMB-TO ALTITUDE DECREASE.
5. 6. TO COMPLY WITH 8260.46E.

04/01/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED 1/26/2016.
1. CHANGED RWY NUMBER FOR VCOA CONTROLLING OBSTACLE FROM 29 TO 06.

