

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

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>AIRPORT</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
CLOVERDALE MUNI	O60	CLOVERDALE	CA	2	17 JUNE 2021

TAKEOFF MINIMUMS:

RWY 14: 300-1 WITH MINIMUM CLIMB OF 475 FT PER NM TO 1400, OR 3900-3 FOR VCOA.
RWY 32: 3900-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 14: CLIMB ON A HEADING BETWEEN 120 CW TO 150 FROM DEPARTURE END OF RUNWAY TO 4500 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

ALL RWYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CLOVERDALE MUNI AIRPORT AT OR ABOVE 4000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 14, TREE 38 FT FROM DER, 411 FT RIGHT OF CENTERLINE, 305 FT MSL. VEGETATION 61 FT FROM DER, 307 FT LEFT OF CENTERLINE, 276 FT MSL. VEGETATION BEGINNING 80 FT FROM DER, 90 FT LEFT OF CENTERLINE, UP TO 9 FT AGL/279 FT MSL. TREES BEGINNING 95 FT FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 43 FT AGL/310 FT MSL. TREE 391 FT FROM DER, 29 FT LEFT OF CENTERLINE, 31 FT AGL/291 FT MSL. TREE 396 FT FROM DER, 154 FT LEFT OF CENTERLINE, 40 FT AGL/298 FT MSL. TREE 416 FT FROM DER, 80 FT LEFT OF CENTERLINE, 37 FT AGL/299 FT MSL. TREES BEGINNING 419 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/303 FT MSL. TREE 448 FT FROM DER, 207 FT LEFT OF CENTERLINE, 58 FT AGL/329 FT MSL. TREE, POLE BEGINNING 611 FT FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 314 FT MSL. TREES, AG EQUIP BEGINNING 662 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 369 FT MSL. TREES BEGINNING 1046 FT FROM DER, 325 FT RIGHT OF CENTERLINE, UP TO 352 FT MSL. TREES, STACK, BUILDINGS BEGINNING 1483 FT FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 373 FT MSL. BUILDINGS, PIPELINE PIPES, POLES, TREES, AG EQUIP, TRANSMISSION LINES BEGINNING 1907 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 142 FT AGL/427 FT MSL. AG EQUIP, TREE BEGINNING 2902 FT FROM DER, 37 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/371 FT MSL. TREE 2970 FT FROM DER, 291 FT LEFT OF CENTERLINE, 48 FT AGL/380 FT MSL. AG EQUIP BEGINNING 2979 FT FROM DER, 87 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/386 FT MSL. ANTENNA, TREES, AG EQUIP, POLE BEGINNING 3082 FT FROM DER, 70 FT LEFT OF CENTERLINE, UP TO 19 FT AGL/403 FT MSL. TREE, BUILDINGS BEGINNING 4785 FT FROM DER, 503 FT LEFT OF CENTERLINE, UP TO 31 FT AGL/426 FT MSL. TREE 4878 FT FROM DER, 415 FT LEFT OF CENTERLINE, 37 FT AGL/428 FT MSL. TREE 4916 FT FROM DER, 511 FT LEFT OF CENTERLINE, 52 FT AGL/446 FT MSL. AG EQUIP BEGINNING 1 NM FROM DER, 1806 FT RIGHT OF CENTERLINE, UP TO 6 FT AGL/448 FT MSL. TREE 1 NM FROM DER, 1969 FT RIGHT OF CENTERLINE, 496 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 1127 FT RIGHT OF CENTERLINE, UP TO 534 FT MSL. TREE 1.5 NM FROM DER, 2973 FT RIGHT OF CENTERLINE, 549 FT MSL. TREE 1.6 NM FROM DER, 2150 FT RIGHT OF CENTERLINE, 529 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 1753 FT RIGHT OF CENTERLINE, UP TO 719 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 393 FT RIGHT OF CENTERLINE, UP TO 814 FT MSL. TREES BEGINNING 2.2 NM FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 772 FT MSL. TREE 2.2 NM FROM DER, 59 FT LEFT OF CENTERLINE, 620 FT MSL. TREE 2.5 NM FROM DER, 1452 FT RIGHT OF CENTERLINE, 780 FT MSL.

NOTE: RWY 32, TREE 32 FT FROM DER, 497 FT RIGHT OF CENTERLINE, 288 FT MSL. AG EQUIP 35 FT FROM DER, 371 FT LEFT OF CENTERLINE, 6 FT AGL/283 FT MSL. TREE 51 FT FROM DER, 252 FT LEFT OF CENTERLINE, 297 FT MSL. TREE, FENCES BEGINNING 71 FT FROM DER, 67 FT RIGHT OF CENTERLINE, UP TO 313 FT MSL. TREES, AG EQUIP, FENCES BEGINNING 96 FT FROM DER, 62 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/322 FT MSL. TREE 419 FT FROM DER, 477 FT RIGHT OF CENTERLINE, 329 FT MSL. TREE 450 FT FROM DER, 372 FT LEFT OF CENTERLINE, 341 FT MSL. TREES BEGINNING 806 FT FROM DER, 505 FT RIGHT OF CENTERLINE, UP TO 331 FT MSL. TREES BEGINNING 989 FT FROM DER, 293 FT LEFT OF CENTERLINE, UP TO 363 FT MSL. TREE 2915 FT FROM DER, 965 FT RIGHT OF CENTERLINE, 349 FT MSL. TREE, BUILDING BEGINNING 2967 FT FROM DER, 1241 FT LEFT OF CENTERLINE, UP TO 393 FT MSL. TREES BEGINNING 3274 FT FROM DER, 173 FT RIGHT OF CENTERLINE, UP TO 374 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 292 FT RIGHT OF CENTERLINE, UP TO 581 FT MSL. TREE, BUILDING BEGINNING 2.2 NM FROM DER, 221 FT RIGHT OF CENTERLINE, UP TO 652 FT MSL. TREE 2.3 NM FROM DER, 276 FT RIGHT OF CENTERLINE, 672 FT MSL. TANK 2.4 NM FROM DER, 3970 FT LEFT OF CENTERLINE, 680 FT MSL.

CONTROLLING OBSTACLES:

RWY 14: 880 FT MSL AAO 384438.33N/1225902.64W (CLIMB GRADIENT), 1120 FT MSL AAO 384352.75N/1225950.95W (CLIMB GRADIENT TERMINATION ALTITUDE), 427 FT MSL BUILDING 384602.75N/1225919.57W (CEILING/VISIBILITY).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 14: 4920 FT MSL AAO 384826.26N/1224426.13W.

VISUAL CLIMB AREA OBSTACLE: 2179 FT MSL AAO 384749.69N/1225717.83W. OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 4920 FT MSL AAO 384826.26N/1224426.13W.

REMARKS:

RWY 32: DUE TO EXCESSIVE CLIMB GRADIENT DUE TO HIGH TERRAIN AND AAO OUTSIDE ICA, VCOA ONLY DEVELOPED AT REQUEST OF ATC AND FPT.

FLIGHT INSPECTED BY

THOMAS E MOLOKIE

Digitally signed by

DONALD H LANIER

Apr 06, 2021

OFFICE

FICO

DATE

04/01/2021

DEVELOPED BY

JON DENTON (DEXTER SWEETING)

Digitally signed by

DONALD H LANIER

Apr 06, 2021

OFFICE

AJV-A432

DATE

11/20/2020



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>EFFECTIVE DATE</u>
CLOVERDALE MUNI	O60	CLOVERDALE	CA	2	17 JUNE 2021

<u>APPROVED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LONNIE EVERHART	DONALD H LANIER Apr 06, 2021	AJV-A430		MANAGER

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZOA, STS ATCT, AMGR

CHANGES - REASONS:

1. CHANGED RWY 14 TAKEOFF MINIMUMS FROM "700-3 WITH MINIMUM CLIMB OF 390 FT PER NM TO 1200 OR STANDARD WITH MINIMUM CLIMB OF 744 FT PER NM TO 1000, OR 3600-3 FOR CLIMB IN VISUAL CONDITIONS" TO "300-1 WITH MINIMUM CLIMB OF 475 FT PER NM TO 1400, OR 3900-3 FOR VCOA." - NEW OBSTACLE EVALUATION COMPLETED AND UPDATE TO VCOA VERBIAGE IAW 8260.46G.
2. CHANGED RWY 32 TAKEOFF MINIMUMS FROM " NA - OBSTACLES" TO "3900-3 FOR VCOA" - NEW OBSTACLE EVALUATION COMPLETED.
3. CHANGED RWY 14 TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB DIRECT STS VOR/DME, THENCE ...OR CLIMB IN VISUAL CONDITIONS TO CROSS CLOVERDALE MUNI AIRPORT AT OR ABOVE 3700 BEFORE PROCEEDING ON COURSE.... CLIMB IN STS VOR/DME HOLDING PATTERN, HOLD NW, RT, 140.00 INBOUND, TO CROSS STS VOR/DME AT OR ABOVE MEA/MCA FOR DIRECTION OF FLIGHT" TO "CLIMB ON A HEADING BETWEEN 120 CW TO 150 FROM DEPARTURE END OF RUNWAY TO 4500 BEFORE PROCEEDING ON COURSE" - ATC/FPT REQUEST.
4. ADDED VCOA TO RWY 32 - NEW OBSTACLE EVALUATION COMPLETED.
5. UPDATED TAKEOFF OBSTACLE NOTES FOR RWY 14 AND ADDED TAKEOFF OBSTACLE NOTES FOR RWY 32 - NEW OBSTACLE EVALUATION COMPLETED.
6. UPDATED CONTROLLING OBSTACLES FOR RWY 14 AND VCOA - NEW OBSTACLE EVALUATION COMPLETED.
7. ADDED "VISUAL CLIMB OVER AIRPORT: ALL RWYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CLOVERDALE MUNI AIRPORT AT OR ABOVE 4000 BEFORE PROCEEDING ON COURSE." - REQUIRED DOCUMENTATION PER 8260.46G, CTA PER OBSTACLE EVALUATION.

