

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

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
CONCORD, CA	BUCHANAN FIELD	22 JUNE 2017	3

TAKEOFF MINIMUMS:

RWY 1L, 1R, STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 OR 3700-3 FOR VCOA.

RWY 14L, 14R, STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700 OR 3700-3 FOR VCOA.

RWY 19L, 19R, STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 3900 OR 3700-3 FOR VCOA.

RWY 32L, 32R, STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 OR 3700-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 1L, 1R, 14L, 14R, 19L, 19R: CLIMBING LEFT TURN DIRECT CCR VOR/DME, THENCE...

RWY 32L, 32R: CLIMBING RIGHT TURN DIRECT CCR VOR/DME, THENCE...

...AIRCRAFT DEPARTING ON CCR VOR/DME R-150 CLOCKWISE R-110, CLIMB ON COURSE. ALL OTHERS, CLIMB IN CCR VOR/DME HOLDING PATTERN (HOLD N, LEFT TURNS, 191.00 INBOUND) TO CROSS CCR VOR/DME AT OR ABOVE 3400 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 BUCHANON FIELD AIRPORT AT OR ABOVE 3600 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1L, FENCE 116 FT FROM DER, 1 FT RIGHT OF CENTERLINE, 29 FT MSL. BUILDING 639 FT FROM DER, 381 FT RIGHT OF CENTERLINE, 25 FT AGL/48 FT MSL. VEGETATION 675 FT FROM DER, 96 FT LEFT OF CENTERLINE, 38 FT MSL. TREE AND POLES BEGINNING 1261 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 78 FT MSL. FLAGPOLE 1520 FT FROM DER, 753 FT LEFT OF CENTERLINE, 71 FT MSL. TREE, CAMERA, AND GENERAL UTILITY BEGINNING 1860 FT FROM DER, 48 FT RIGHT OF CENTERLINE, UP TO 98 FT MSL. POLE 1906 FT FROM DER, 120 FT LEFT OF CENTERLINE, 51 FT AGL/72 FT MSL. SIGN 1996 FT FROM DER, 812 FT LEFT OF CENTERLINE, 78 FT MSL. TREE 2392 FT FROM DER, 8 FT LEFT OF CENTERLINE, 83 FT MSL.

NOTE: RWY 1R, POLE 1551 FT FROM DER, 97 FT RIGHT OF CENTERLINE, 43 FT AGL/67 FT MSL. POLE 1864 FT FROM DER, 357 FT RIGHT OF CENTERLINE, 96 FT MSL. TREE 1927 FT FROM DER, 222 FT RIGHT OF CENTERLINE, 131 FT MSL. TREE 2110 FT FROM DER, 981 FT RIGHT OF CENTERLINE, 133 FT MSL.

NOTE: RWY 14L, VEHICLES ON ROAD AND FENCES BEGINNING 82 FT FROM DER, 29 FT LEFT OF CENTERLINE, UP TO 40 FT MSL. BUILDING AND TREES BEGINNING 731 FT FROM DER, 191 FT LEFT OF CENTERLINE, UP TO 51 FT MSL. TREES AND BUILDINGS BEGINNING 840 FT FROM DER, 93 FT LEFT OF CENTERLINE, UP TO 77 FT MSL. TREES, POLES, AND BUILDINGS BEGINNING 942 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 102 FT MSL. TREES, BUILDINGS, AND POLES BEGINNING 1116 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/71 FT MSL. TREE 1465 FT FROM DER, 112 FT RIGHT OF CENTERLINE, 73 FT MSL. TREES BEGINNING 1496 FT FROM DER, 121 FT RIGHT OF CENTERLINE, UP TO 84 FT MSL. TREES BEGINNING 1648 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 91 FT MSL. TREES AND BUILDING BEGINNING 1750 FT FROM DER, 30 FT LEFT OF CENTERLINE, UP TO 105 FT MSL. TREE 2570 FT FROM DER, 93 FT RIGHT OF CENTERLINE, 92 FT MSL. BUILDINGS BEGINNING 5413 FT FROM DER, 99 FT LEFT OF CENTERLINE, UP TO 177 FT MSL. BUILDING 5456 FT FROM DER, 138 FT LEFT OF CENTERLINE, 146 FT AGL/179 FT MSL.

NOTE: RWY 14R, WINDSOCK 411 FT FROM DER, 451 FT RIGHT OF CENTERLINE, 31 FT AGL/51 FT MSL. CONTROL TOWER 1140 FT FROM DER, 315 FT RIGHT OF CENTERLINE, 61 FT AGL/84 FT MSL. ELECTRICAL SYSTEM, TREE, POLE, AND ANTENNA BEGINNING 1140 FT FROM DER, 167 FT RIGHT OF CENTERLINE, UP TO 98 FT MSL. TREE 2744 FT FROM DER, 886 FT LEFT OF CENTERLINE, 102 FT MSL. BUILDING 3149 FT FROM DER, 946 FT RIGHT OF CENTERLINE, 92 FT AGL/125 FT MSL. BUILDINGS BEGINNING 3253 FT FROM DER, 846 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/136 FT MSL.

NOTE: RWY 19L, TREE 2132 FT FROM DER, 376 FT LEFT OF CENTERLINE, 90 FT MSL. TREE 2257 FT FROM DER, 27 FT LEFT OF CENTERLINE, 97 FT MSL. TREE 2543 FT FROM DER, 384 FT RIGHT OF CENTERLINE, 87 FT MSL. TREE 3111 FT FROM DER, 946 FT RIGHT OF CENTERLINE, 106 FT MSL.

NOTE: RWY 19R, TERRAIN 43 FT FROM DER, 397 FT LEFT OF CENTERLINE, 25 FT MSL. FENCE 123 FT FROM DER, 502 FT LEFT OF CENTERLINE, 30 FT MSL. TREE 603 FT FROM DER, 489 FT RIGHT OF CENTERLINE, 44 FT MSL. POLE AND TREES BEGINNING 844 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 94 FT MSL. TREE 1023 FT FROM DER, 81 FT LEFT OF CENTERLINE, 59 FT MSL. POLE AND TREES BEGINNING 1201 FT FROM DER, 568 FT LEFT OF CENTERLINE, UP TO 77 FT MSL. BUILDING AND TREES BEGINNING 1275 FT FROM DER, 114 FT LEFT OF CENTERLINE, UP TO 97 FT MSL. TREE 2129 FT FROM DER, 447 FT RIGHT OF CENTERLINE, 106 FT MSL. TREE 2755 FT FROM DER, 216 FT LEFT OF CENTERLINE, 108 FT MSL.



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NOTE: RWY 32L, BUILDING 7 FT FROM DER, 321 FT LEFT OF CENTERLINE, 18 FT AGL/35 FT MSL. VEHICLES ON ROAD AND HANGAR BEGINNING 259 FT FROM DER, 300 FT LEFT OF CENTERLINE, UP TO 37 FT MSL. VEHICLES ON ROAD BEGINNING 560 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 34 FT MSL. VEHICLES ON ROAD 627 FT FROM DER, 609 FT LEFT OF CENTERLINE, 38 FT MSL. VEHICLES ON ROAD BEGINNING 631 FT FROM DER, 63 FT LEFT OF CENTERLINE, UP TO 38 FT MSL. BUILDING 633 FT FROM DER, 253 FT RIGHT OF CENTERLINE, 17 FT AGL/35 FT MSL. VEHICLES ON ROAD 699 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 38 FT MSL. VEHICLES ON ROAD BEGINNING 715 FT FROM DER, 37 FT RIGHT OF CENTERLINE, UP TO 39 FT MSL. VEHICLES ON ROAD BEGINNING 720 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 39 FT MSL. VEHICLES ON ROAD BEGINNING 730 FT FROM DER, 137 FT RIGHT OF CENTERLINE, UP TO 40 FT MSL. VEHICLES ON ROAD BEGINNING 751 FT FROM DER, 216 FT RIGHT OF CENTERLINE, UP TO 41 FT MSL. VEHICLES ON ROAD BEGINNING 792 FT FROM DER, 493 FT RIGHT OF CENTERLINE, UP TO 42 FT MSL. VEHICLES ON ROAD BEGINNING 798 FT FROM DER, ON CENTERLINE, UP TO 42 FT MSL. TREE 824 FT FROM DER, 135 FT LEFT OF CENTERLINE, 40 FT MSL. VEHICLES ON ROAD BEGINNING 891 FT FROM DER, 488 FT RIGHT OF CENTERLINE, UP TO 43 FT MSL. VEHICLES ON ROAD 920 FT FROM DER, 642 FT RIGHT OF CENTERLINE, 44 FT MSL. TRANSMISSION TOWERS BEGINNING 6014 FT FROM DER, 1332 FT LEFT OF CENTERLINE, UP TO 173 FT MSL. TANK 1 NM FROM DER, 1927 FT RIGHT OF CENTERLINE, 213 FT MSL. CHIMNEY 1.4 NM FROM DER, 2458 FT RIGHT OF CENTERLINE, 355 FT AGL/378 FT MSL. REFINERY 1.6 NM FROM DER, 2934 FT RIGHT OF CENTERLINE, 308 FT AGL/322 FT MSL.

NOTE: RWY 32R, TERRAIN 81 FT FROM DER, 481 FT RIGHT OF CENTERLINE, 21 FT MSL. VEHICLES ON ROAD 559 FT FROM DER, 3 FT RIGHT OF CENTERLINE, 34 FT MSL. VEHICLES ON ROAD 585 FT FROM DER, 496 FT LEFT OF CENTERLINE, 34 FT MSL. BUILDING 632 FT FROM DER, 246 FT LEFT OF CENTERLINE, 35 FT MSL. BUILDING 653 FT FROM DER, 236 FT RIGHT OF CENTERLINE, 41 FT MSL. FLAGPOLE, SIGNS, AND VEHICLES ON ROAD BEGINNING 654 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/43 FT MSL. VEHICLES ON ROAD BEGINNING 677 FT FROM DER, 491 FT LEFT OF CENTERLINE, UP TO 38 FT MSL. VEHICLES ON ROAD BEGINNING 714 FT FROM DER, 374 FT LEFT OF CENTERLINE, UP TO 39 FT MSL. VEHICLES ON ROAD BEGINNING 730 FT FROM DER, 243 FT LEFT OF CENTERLINE, UP TO 40 FT MSL. VEHICLES ON ROAD AND TREES BEGINNING 750 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 41 FT MSL. VEHICLES ON ROAD BEGINNING 820 FT FROM DER, 285 FT RIGHT OF CENTERLINE, UP TO 45 FT MSL. VEHICLES ON ROAD BEGINNING 824 FT FROM DER, 234 FT RIGHT OF CENTERLINE, UP TO 47 FT MSL. VEHICLES ON ROAD 828 FT FROM DER, 624 FT RIGHT OF CENTERLINE, 48 FT MSL. VEHICLES ON ROAD BEGINNING 829 FT FROM DER, ON CENTERLINE, UP TO 50 FT MSL. VEHICLES ON ROAD BEGINNING 867 FT FROM DER, 43 FT LEFT OF CENTERLINE, UP TO 42 FT MSL. VEHICLES ON ROAD 899 FT FROM DER, 11 FT LEFT OF CENTERLINE, 43 FT MSL. VEHICLES ON ROAD BEGINNING 932 FT FROM DER, 269 FT RIGHT OF CENTERLINE, UP TO 52 FT MSL. AGRICULTURAL EQUIPMENT 2109 FT FROM DER, 600 FT RIGHT OF CENTERLINE, 78 FT AGL/99 FT MSL. POLE 3700 FT FROM DER, 1431 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/150 FT MSL. POLE 4067 FT FROM DER, 1531 FT RIGHT OF CENTERLINE, 43 FT AGL/161 FT MSL. TANK 4527 FT FROM DER, 1675 FT RIGHT OF CENTERLINE, 57 FT AGL/170 FT MSL. TRANSMISSION TOWER 6013 FT FROM DER, 1840 FT LEFT OF CENTERLINE, 173 FT MSL. TANK 1 NM FROM DER, 1423 FT RIGHT OF CENTERLINE, 126 FT AGL/213 FT MSL. CHIMNEY 1.4 NM FROM DER, 1954 FT RIGHT OF CENTERLINE, 355 FT AGL/378 FT MSL. REFINERY 1.6 NM FROM DER, 2429 FT RIGHT OF CENTERLINE, 308 FT AGL/322 FT MSL.

CONTROLLING OBSTACLES:

RWY 1L, 1R: 738 FT MSL TRANSMISSION LINE TOWER 380201.04N/1220104.33W.

RWY 14L, 14R: 1991 FT MSL AAO 375444.00N/1215732.35W.

RWY 19L, 19R: 2959 FT MSL AAO 375307.20N/1215639.00W.

RWY 32L, 32R: 738 FT MSL TRANSMISSION LINE TOWER 380201.04N/1220104.33W.

ALL RWYS (VCOA): 1038 FT MSL AAO 375657.90N/1220711.45W (VCA). 4079 FT MSL AAO 375254.10N/1215451.55W (DIVERSE).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 1L, 1R, 14L, 14R, 19L, 19R, 32L, 32R: 4079 FT MSL AAO 375254.10N/1215451.55W.



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REMARKS:

1. RWY 1L CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 326 FT PER NM).
2. RWY 1R CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 307 FT PER NM).
3. RWY 14L CLIMB GRADIENT ROUNDED UP TO 420 FT PER NM FOR PUBLICATION (COMPUTED VALUE 419 FT PER NM).
4. RWY 14R CLIMB GRADIENT ROUNDED UP TO 420 FT PER NM FOR PUBLICATION (COMPUTED VALUE 400 FT PER NM).
5. RWY 19L CLIMB GRADIENT ROUNDED UP TO 490 FT PER NM FOR PUBLICATION (COMPUTED VALUE 487 FT PER NM).
6. RWY 19R CLIMB GRADIENT ROUNDED UP TO 490 FT PER NM FOR PUBLICATION (COMPUTED VALUE 486 FT PER NM).
7. RWY 32L CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 329 FT PER NM).
8. RWY 32R CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 322 FT PER NM).
9. NO PRECIPITOUS TERRAIN IDENTIFIED IN VCA CLIMB AREA.

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON	OFFICE SYMBOL:	DATE:
JAMES M MEEK	Apr 06, 2017	FICO	02/02/2017

DEVELOPED BY:	<i>Digitally signed by</i> PETER R GUIMOND	OFFICE SYMBOL:	DATE:
PETER GUIMOND	Oct 11, 2016	AJV-5422	10/11/2016

APPROVED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON	OFFICE SYMBOL:	DATE:
TONY LAWSON	Apr 06, 2017	AJV-5420	

REQUIRED EFFECTIVE DATE:

ROUTINE.



COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZOA, SUU APP CON, CCR ATCT, AMGR.

CHANGES - REASONS:

1. MOVED VCOA TEXT TO VISUAL CLIMB OVER AIRPORT BLOCK - IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 8.
2. AMENDED VCOA INSTRUCTIONS FROM CLIMB IN VISUAL CONDITIONS TO CROSS BUCHANAN AIRPORT NORTHBOUND AT OR ABOVE 2100 VIA CCR R-173 TO CCR VOR/DME, THENCE AIRCRAFT DEPARTING CCR VOR/DME R-150 CLOCKWISE R-110 CLIMB ON COURSE. ALL OTHERS CLIMB IN CCR VOR/DME HOLDING PATTERN (HOLD N, LEFT TURNS, 191.00 INBOUND) TO CROSS CCR VOR/DME AT OR ABOVE 2700 FEET BEFORE PROCEEDING ON COURSE TO READ OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS BUCHANAN FIELD AIRPORT AT OR ABOVE 3600 BEFORE PROCEEDING ON COURSE - CRITERIA DOES NOT EXIST TO EVALUATE A CLIMB-IN-HOLD IN CONJUNCTION WITH A VCOA SO A DIVERSE VCOA WAS ESTABLISHED. VCOA INSTRUCTIONS FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 8.
3. AMENDED RWY 1L, 1R TAKEOFF MINIMUMS FROM STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 1100 OR 2200-3 FOR CLIMB IN VISUAL CONDITIONS TO STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 OR 3700-3 FOR VCOA - NEW OBSTACLE STUDY. VCOA MINIMUMS INCREASED TO REFLECT UPDATED VCOA INSTRUCTIONS.
4. AMENDED RWY 1L, 1R DEPARTURE INSTRUCTIONS FROM CLIMB DIRECT CCR VOR/DME, THENCE TO READ CLIMBING LEFT TURN DIRECT CCR VOR/DME THENCE - TURN TO CCR VOR/DME COULD EXCEED 15 DEGREES DEPENDING ON WHERE AIRCRAFT REACH 400 AGL.
5. AMENDED RWY 14L, 14R TAKEOFF MINIMUMS FROM STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700 OR 2200-3 FOR CLIMB IN VISUAL CONDITIONS TO STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700 OR 3700-3 FOR VCOA - VCOA MINIMUMS INCREASED TO REFLECT UPDATED VCOA INSTRUCTIONS.
6. AMENDED RWY 19L, 19R TAKEOFF MINIMUMS FROM STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 4000 OR 2200-3 FOR CLIMB IN VISUAL CONDITIONS TO STANDARD WITH MINIMUM CLIMB OF 4900 FT PER NM TO 3900 OR 3700-3 FOR VCOA - NEW OBSTACLE STUDY. VCOA MINIMUMS INCREASED TO REFLECT UPDATED VCOA INSTRUCTIONS.
7. AMENDED RWY 32L, 32R TAKEOFF MINIMUMS FROM STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 500 OR 2200-3 FOR CLIMB IN VISUAL CONDITIONS TO STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 OR 3700-3 FOR VCOA - NEW OBSTACLE STUDY. VCOA MINIMUMS INCREASED TO REFLECT UPDATED VCOA INSTRUCTIONS.
8. INCREASED CLIMB-IN-HOLD TERMINATION ALTITUDE FOR AIRCRAFT DESIRING TO PROCEED ON CCR VOR/DME R-110 CW R-150 FROM 2700

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MSL TO 3400 MSL - NEW OBSTACLE STUDY.

9. AMENDED CONTROLLING OBSTACLES FOR ALL RUNWAYS - NEW OBSTACLE STUDY. FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 10.

10. ADDED VCOA CONTROLLING OBSTACLES FOR ALL RUNWAYS - NEW OBSTACLE STUDY. FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 10.

11. ADDED OBSTACLES MANDATING ODP ROUTE DEVELOPMENT - FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 10.

12. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS - IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 9. GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.

