

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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BUCHANAN	TWO	BCHN2.CCR	ONE	09/15/2016	22 JUN 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 type="checkbox"/>

DP ROUTE DESCRIPTION:

RWY 1L: CLIMBING LEFT TURN DIRECT CCR VOR/DME, THENCE...
RWY 14L: CLIMBING LEFT TURN DIRECT CCR VOR/DME, THENCE...
RWY 19R: CLIMBING LEFT TURN DIRECT CCR VOR/DME, THENCE...
RWY 32R: CLIMBING RIGHT TURN DIRECT CCR VOR/DME, THENCE...

...ON (TRANSITION) OR (ASSIGNED ROUTE).

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>
CROIT	BCHN2.CROIT	CCR VOR/DME	CROIT INT	258.52 (CCR R-259)	7.10	3000		
PITTS	BCHN2.PITTS	CCR VOR/DME	PITTS INT	070.61 (CCR R-071)	7.30	3200		PITTS INT AT/ABOVE 3800 SOUTHBOUND
REJOY	BCHN2.REJOY	CCR VOR/DME	SEVUH INT	070.61 (CCR R-071)	8.70	3200		
			SEVUH INT	REJOY INT	014.99 (SAC R-195)	8.16	3200	
SABLO	BCHN2.SABLO	CCR VOR/DME	SABLO INT	229.24 (CCR R-229)	8.03	3300		
SCAGGS ISLAND	BCHN2.SGD	CCR VOR/DME	SGD VORTAC	280.52 & 280.32 (CCR R-281 & SGD R-100)	17.50	3300		

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 1R, 14R, 19L, 32L: NA - AIR TRAFFIC.
RWY 1L, STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000.
RWY 14L, STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700.
RWY 19R, STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 3900.
RWY 32R, STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000.

TAKEOFF OBSTACLES 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.



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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 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.

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:** 738 FT MSL TRANSMISSION LINE TOWER 380201.04N/1220104.33W.
- RWY 14L:** 1991 FT MSL AAO 375444.00N/1215732.35W.
- RWY 19R:** 2959 FT MSL AAO 375307.20N/1215639.00W.
- RWY 32R:** 738 FT MSL TRANSMISSION LINE TOWER 380201.04N/1220104.33W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

- CHART:** V6, V108.
- CHART: TOP ALTITUDE:** ASSIGNED BY ATC.
- CHART:** OAK R-347, SAU R-035, SGD R-114, AND PYE R-075 AT CROIT; OAK R-022 AT PITTS; OAK R-022 AND SGD R-074 AT REJOY; OAK R-347, SGD R-127, AND SAU R-045 AT SABLO.



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AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
BUCHANAN FIELD	CONCORD	CA

COMMUNICATIONS:

GND CONTROL, CCR ATCT, SUU APP CON

FIXES AND/OR NAVAIDS:

SAU VOR/DME, SAC VORTAC, OAK VOR/DME



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- REMARKS:**
1. WESTERN MOUNTAINOUS TERRAIN REDUCTION APPLIED IN CROIT, PITTS, REJOY (CCR VOR/DME TO SEVUH SEGMENT), AND SABLO TRANSITIONS IN ACCORDANCE WITH FAAO 8260.3, PARA 1720.
 2. RWY 1L CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 326 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 19R CLIMB GRADIENT ROUNDED UP TO 490 FT PER NM FOR PUBLICATION (COMPUTED VALUE 486 FT PER NM).
 5. RWY 32R CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 322 FT PER NM).

FLIGHT INSPECTED BY: *Digitally signed by*
CHARLES D CUNNINGHAM **ROBERT G HAMILTON**
Apr 06, 2017

OFFICE SYMBOL: FICO
DATE: 02/21/2017

DEVELOPED BY: *Digitally signed by*
PETER GUIMOND **PETER R GUIMOND**
Oct 13, 2016

OFFICE SYMBOL: AJV-5422
DATE: 10/13/2016

APPROVED BY: *Digitally signed by*
TONY LAWSON **ROBERT G HAMILTON**
Apr 06, 2017

OFFICE SYMBOL: AJV-5420
DATE:

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, NORCAL APP CON, SUU APP CON, CCR ATCT, AMGR

CHANGES - REASONS:

1. AMENDED RWY 1L TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 360 FT PER NM TO 1100 (3800 FOR PITTS TRANSITION). ATC CLIMB OF 360 FT PER NM TO 3000 TO READ STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 - NEW OBSTACLE STUDY. ATC CLIMB GRADIENTS NO LONGER APPROPRIATE IN ACCORDANCE WITH FAAO 8260.46F, PARA 2-1-1, E(2).
2. AMENDED RWY 1L 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.
3. AMENDED THENCE INSTRUCTIONS FROM VIA (TRANSITION) OR (ASSIGNED ROUTE) TO ON (TRANSITION) OR (ASSIGNED) ROUTE - VIA REPLACED BY ON IN ACCORDANCE WITH CURRENT POLICY.
4. AMENDED RWY 14L TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 420 FT PER NM TO 2700 (3800 FOR PITTS TRANSITION). ATC CLIMB OF 420 FT PER NM TO 3000 TO READ STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700. - ATC CLIMB GRADIENTS NO LONGER APPROPRIATE IN ACCORDANCE WITH FAAO 8260.46F, PARA 2-1-1, E(2).
5. AMENDED RWY 32R TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 360 FT PER NM TO 500. ATC CLIMB OF 320 FT PER NM TO 3000 TO READ STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 - NEW OBSTACLE STUDY. ATC CLIMB GRADIENTS NO LONGER APPROPRIATE IN ACCORDANCE WITH FAAO 8260.46F, PARA 2-1-1, E(2).
6. AMENDED PITTS TRANSITION MEA FROM 3000 TO 3200 - NEW OBSTACLE STUDY USING ENROUTE CRITERIA AND AAO.
7. AMENDED REJOY TRANSITION MEA FROM 3000 TO 3200 - NEW OBSTACLE STUDY USING ENROUTE CRITERIA AND AAO.
8. AMENDED SABLO TRANSITION MEA FROM 3100 TO 3300 - NEW OBSTACLE STUDY USING ENROUTE CRITERIA AND AAO.
9. ADDED COURSE AND RADIAL FROM SGD VORTAC TO SCAGGS ISLAND TRANSITION - FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 2, PARA E.
10. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL AUTHORIZED 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.



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- 11. AMENDED CONTROLLING OBSTACLES FOR ALL AUTHORIZED RUNWAYS - NEW OBSTACLE STUDY. FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 10.
- 12. ADDED CROSSING RADIALS FOR CROIT, PITTS, REJOY, AND SABLO IN ADDITIONAL FLIGHT DATA - CLARIFIES INTERSECTION CHARTING REQUIREMENTS ON PROCEDURE.
- 13. ADDED CHART: TOP ALTITUDE: ASSIGNED BY ATC IN ADDITIONAL FLIGHT DATA - IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 2, PARA 10C.
- 14. DELETED ALL REFERENCES TO ECA VORTAC - WESTERN FPT REQUEST. ECA VOR IS SCHEDULED TO BE DECOMMISSIONED AS PART OF VOR MON.
- 15. ADDED CHART SGD R-074 AT REJOY IN ADDITIONAL FLIGHT DATA - SHOW INTERSECTION FIX MAKEUP AFTER REMOVAL OF DEPICTION OF ECA VOR.

