

**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>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
VACAVILLE, CA	NUT TREE	17 AUGUST 2017	5

TAKEOFF MINIMUMS:

RWY 2: STANDARD.

RWY 20: STANDARD WITH MINIMUM CLIMB OF 410 FT PER NM TO 1600 FT, OR 1200-2 1/2 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 2: CLIMBING RIGHT TURN TO INTERCEPT SAC R-242 TO SAC VORTAC TO 2000 BEFORE PROCEEDING ON COURSE.

RWY 20: CLIMBING LEFT TURN TO INTERCEPT SAC R-242 TO SAC VORTAC TO 2000 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 20: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NUT TREE AIRPORT EASTBOUND AT OR ABOVE 1300 THEN CLIMB TO 2000 ON SAC R-242 TO SAC VORTAC, PROCEED ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 02, PARKING LOT, POLE BEGINNING 51 FT FROM DER, 290 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/119 FT MSL.

FENCE BEGINNING 99 FT FROM DER, 210 FT LEFT OF CENTERLINE, UP TO 118 FT MSL.

POLE, PARKING LOT, TREE BEGINNING 137 FT FROM DER, 417 FT LEFT OF CENTERLINE, UP TO 148 FT MSL.

TREE 948 FT FROM DER, 732 FT RIGHT OF CENTERLINE, 141 FT MSL.

POLE 1099 FT FROM DER, 612 FT LEFT OF CENTERLINE, 149 FT MSL.

NOTE: RWY 20, TERRAIN BEGINNING 8 FT FROM DER, 253 FT RIGHT OF CENTERLINE, UP TO 117 FT MSL.

TREE 61 FT FROM DER, 411 FT LEFT OF CENTERLINE, 51 FT AGL/163 FT MSL.

TERRAIN 140 FT FROM DER, 432 FT RIGHT OF CENTERLINE, 124 FT MSL.

TREE 144 FT FROM DER, 538 FT LEFT OF CENTERLINE, 85 FT AGL/197 FT MSL.

POLE, TERRAIN, FENCE BEGINNING 206 FT FROM DER, 167 FT RIGHT OF CENTERLINE, UP TO 12 FT AGL/130 FT MSL.

TREE 259 FT FROM DER, 506 FT LEFT OF CENTERLINE, 211 FT MSL.

POLE, ANT, TREE BEGINNING 362 FT FROM DER, 497 FT LEFT OF CENTERLINE, UP TO 125 FT AGL/239 FT MSL.

TREE 544 FT FROM DER, 454 FT RIGHT OF CENTERLINE, 135 FT MSL.

TREE, RD (N) BEGINNING 710 FT FROM DER, 393 FT RIGHT OF CENTERLINE, UP TO 164 FT MSL.

TREE, POLE, ANT, TERRAIN, CHIMNEY/SMOKESTACK, SIGN BEGINNING 825 FT FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 264 FT MSL.

TREE, POLE BEGINNING 1576 FT FROM DER, 344 FT RIGHT OF CENTERLINE, UP TO 190 FT MSL.

T-L TWR, POLE BEGINNING 1860 FT FROM DER, 82 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/191 FT MSL.

TERRAIN 2985 FT FROM DER, 1295 FT RIGHT OF CENTERLINE, 195 FT MSL.

TERRAIN 3087 FT FROM DER, 1146 FT RIGHT OF CENTERLINE, 198 FT MSL.

TERRAIN 3090 FT FROM DER, 1303 FT RIGHT OF CENTERLINE, 210 FT MSL.

TERRAIN BEGINNING 3155 FT FROM DER, 1128 FT RIGHT OF CENTERLINE, UP TO 217 FT MSL.

TREE, TERRAIN BEGINNING 3252 FT FROM DER, 535 FT RIGHT OF CENTERLINE, UP TO 241 FT MSL.

TERRAIN BEGINNING 3635 FT FROM DER, 54 FT RIGHT OF CENTERLINE, UP TO 248 FT MSL.

TERRAIN 4058 FT FROM DER, 110 FT RIGHT OF CENTERLINE, 254 FT MSL.

TERRAIN, TREE BEGINNING 4104 FT FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 263 FT MSL.

TREE 5765 FT FROM DER, 1605 FT RIGHT OF CENTERLINE, 264 FT MSL.

CONTROLLING OBSTACLES:

RWY 20: 1169 FT AAO 381909.42N/1215934.48W (CLIMB GRADIENT/CLIMB-TO ALTITUDE)

RWY 20 (VCOA): 909 FT POWER TRANSMISSION POLE 382346.70N/1220045.96W

OBSTACLES MANDATING ROUTE DEVELOPMENT: RWY 2/20: 2996 FT MSL AAO 382351.00N/1220612.00W

QUALITY
16
CHECKED

**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>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
VACAVILLE, CA	NUT TREE	17 AUGUST 2017	5

REMARKS:

AIRPORT MAG VAR CHANGE FROM E15/2005 TO E13/2020.
VCOA CLIMB-TO ALTITUDE 1300 RETAINED - ENVIRONMENTAL.

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON Jun 27, 2017	OFFICE SYMBOL:	DATE:
DANIEL C FAVORITE		FICO	6/23/17
DEVELOPED BY:	<i>Digitally signed by</i> JOHN R THORNTON May 04, 2017	OFFICE SYMBOL:	DATE:
JOHN THORNTON		AJV-5422	04/11/2017
APPROVED BY:	<i>Digitally signed by</i> ROBERT G HAMILTON Jun 27, 2017	OFFICE SYMBOL:	DATE:
JULIE MORGAN		AJV-5420	

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
☐	☐	☒	☐	☐	☒

OTHER:

ZOA, KSUU APP CON, KVCB AIRPORT MANAGER

CHANGES - REASONS:

1. CHANGED RWY 20 TAKEOFF MINIMUMS CLIMB GRADIENT FROM 424 FEET PER NM TO 410 FT PER NM AND CHANGED "CLIMB IN VISUAL CONDITIONS" TO "VCOA"- NEW CONTROLLING OBSTACLE RESULTS IN LOWER CLIMB GRADIENT/WORDING IAW CURRENT CRITERIA.
2. DELETED "OR, FOR CLIMB IN VISUAL CONDITIONS: CROSS NUT TREE AIRPORT EAST BOUND AT OR ABOVE 1300, THEN CLIMB TO 2000 VIA SAC R-242 TO SAC VORTAC, PROCEED ON COURSE" FROM TEXTUAL DEPARTURE PROCEDURES - IAW CURRENT CRITERIA AND USE OF NEW FORMS.
3. ADDED "RWY 20: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NUT TREE AIRPORT EASTBOUND AT OR ABOVE 1300 THEN CLIMB TO 2000 ON SAC R-242 TO SAC VORTAC, PROCEED ON COURSE" TO VISUAL CLIMB OVER AIRPORT - IAW CURRENT CRITERIA AND USE OF NEW FORMS.
4. CHANGED TAKEOFF OBSTACLE NOTES - NEW SURVEY.
5. DELETED RWY 2 CONTROLLING OBSTACLE 2,939 MSL TOWER 382431.60N/1220637.90W, 904 TREE 382346.00N/1220039.00W - NOT APPLICABLE.
6. CHANGED RWY 20 CONTROLLING OBSTACLE FROM "2,939 MSL TOWER 382431.60N/1220637.90W, 904 TREE 382346.00N/1220039.00W" TO "RWY 20: 1169 FT AAO 381909.42N/1215934.48W (CLIMB GRADIENT/CLIMB-TO ALTITUDE)" - MAP STUDY.
7. CHANGED VCOA CONTROLLING OBSTACLE FROM 1169 MSL AAO 381915.00N/1215939.00W TO "RWY 20 (VCOA): 909 FT POWER TRANSMISSION POLE 382346.70N/1220045.96W" - NEW SURVEY.
8. CONTROLLING OBSTACLES: ADDED OBSTACLES MANDATING ROUTE DEVELOPMENT: 2996 FT MSL AAO 382351.00N/1220612.00W.
9. ADDED REMARK: AIRPORT MAG VAR CHANGE FROM E15/2005 TO E13/2020 - AIRPORT MAGVAR UPDATED TO EPOCH YEAR 2020 FORECAST IN CONJUNCTION WITH PROCEDURE AMENDMENT PER WFPT.
10. ADDED REMARK "VCOA CLIMB-TO ALTITUDE 1300 RETAINED - ENVIRONMENTAL" - CLIMB-TO ALTITUDE WOULD BE 1200 BASED UPON OBSTACLE AND REQUIRED OBSTACLE CLEARANCE BUT ENVIRONMENTAL ONLY ALLOWS INCREASES TO ALTITUDES; PREVIOUS VCOA CLIMB TO ALTITUDE OF 1300 IS RETAINED.

QUALITY
16
CHECKED