

**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.

AIRPORT	AIRPORT ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
CHARLES M SCHULZ-SONOMA COUNTY	KSTS	SANTA ROSA	CA	8	17 JUNE 2021

**TAKEOFF MINIMUMS:**

RWY 2: STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 2100 OR 1500-3 FOR VCOA.  
RWY 14: STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 2500 OR 1500-3 FOR VCOA.  
RWY 20: STANDARD WITH MINIMUM CLIMB OF 265 FT PER NM TO 2200 OR 1500-3 FOR VCOA.  
RWY 32: STANDARD WITH MINIMUM CLIMB OF 375 FT PER NM TO 2200 OR 1500-3 FOR VCOA

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 2: CLIMBING LEFT TURN TO 2100 ON A HEADING BETWEEN 200.00 CW TO 305.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE.  
RWY 14: CLIMB TO 2500 ON A HEADING BETWEEN 110.00 CW TO 315.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE.  
RWY 20: CLIMB TO 2200 ON A HEADING BETWEEN 100.00 CW TO 250.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE.  
RWY 32: CLIMBING LEFT TURN TO 2200 ON A HEADING BETWEEN 145.00 CW TO 315.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE.

**VISUAL CLIMB OVER AIRPORT:**

OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. RWY 2, 14, 20, 32 CLIMB IN VISUAL CONDITIONS TO CROSS CHARLES M SCHULZ - SONOMA COUNTY AIRPORT AT OR ABOVE 1400 BEFORE PROCEEDING SOUTHBOUND ON PYE R-349 TO PYE VOR/DME.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 2, TREE 515 FT FROM DER, 561 FT RIGHT OF CENTERLINE, 145 FT MSL.TREE, POLE BEGINNING 629 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 156 FT MSL.TREE 971 FT FROM DER, 369 FT LEFT OF CENTERLINE, 42 FT AGL/148 FT MSL.TREE 985 FT FROM DER, 216 FT LEFT OF CENTERLINE, 149 FT MSL.TREES BEGINNING 1053 FT FROM DER, 215 FT LEFT OF CENTERLINE, UP TO 150 FT MSL.TREES BEGINNING 1153 FT FROM DER, 146 FT LEFT OF CENTERLINE, UP TO 156 FT MSL.TREES BEGINNING 1328 FT FROM DER, 478 FT RIGHT OF CENTERLINE, UP TO 168 FT MSL.TREES BEGINNING 1604 FT FROM DER, 639 FT LEFT OF CENTERLINE, UP TO 166 FT MSL.TREES BEGINNING 1638 FT FROM DER, 786 FT RIGHT OF CENTERLINE, UP TO 184 FT MSL.TREES BEGINNING 1846 FT FROM DER, 619 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/174 FT MSL.TREES BEGINNING 2145 FT FROM DER, 344 FT RIGHT OF CENTERLINE, UP TO 190 FT MSL.TREES BEGINNING 2299 FT FROM DER, 342 FT RIGHT OF CENTERLINE, UP TO 191 FT MSL.TREE 2679 FT FROM DER, 443 FT RIGHT OF CENTERLINE, 196 FT MSL.

NOTE: RWY 14, POLE 6 FT FROM DER, 40 FT LEFT OF CENTERLINE, 121 FT MSL.TREE 409 FT FROM DER, 602 FT LEFT OF CENTERLINE, 138 FT MSL.TREE 778 FT FROM DER, 649 FT LEFT OF CENTERLINE, 146 FT MSL. TREE 972 FT FROM DER, 629 FT LEFT OF CENTERLINE, 147 FT MSL. TREES BEGINNING 1202 FT FROM DER, 599 FT LEFT OF CENTERLINE, UP TO 155 FT MSL.TREE 1336 FT FROM DER, 759 FT LEFT OF CENTERLINE, 167 FT MSL.TREE 2136 FT FROM DER, 778 FT RIGHT OF CENTERLINE, 174 FT MSL.TREE 2194 FT FROM DER, 1033 FT RIGHT OF CENTERLINE, 180 FT MSL.TREE 5322 FT FROM DER, 1543 FT LEFT OF CENTERLINE, 255 FT MSL.

NOTE: RWY 20, TREE 107 FT FROM DER, 461 FT RIGHT OF CENTERLINE, 40 FT AGL/162 FT MSL.TREES BEGINNING 1497 FT FROM DER, 731 FT RIGHT OF CENTERLINE, UP TO 248 FT MSL.TREE 1595 FT FROM DER, 482 FT LEFT OF CENTERLINE, 171 FT MSL.TREE 1679 FT FROM DER, 404 FT LEFT OF CENTERLINE, 187 FT MSL.TREE 1693 FT FROM DER, 934 FT RIGHT OF CENTERLINE, 137 FT AGL/269 FT MSL.TREES BEGINNING 1705 FT FROM DER, 566 FT RIGHT OF CENTERLINE, UP TO 144 FT AGL/274 FT MSL.TREE 2840 FT FROM DER, 1174 FT LEFT OF CENTERLINE, 228 FT MSL.

NOTE: RWY 32, TREE 88 FT FROM DER, 472 FT LEFT OF CENTERLINE, 147 FT MSL.TREES BEGINNING 263 FT FROM DER, 425 FT LEFT OF CENTERLINE, UP TO 153 FT MSL.TREE 642 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 143 FT MSL. TREE 700 FT FROM DER, 548 FT RIGHT OF CENTERLINE, 158 FT MSL.TREES BEGINNING 797 FT FROM DER, 470 FT LEFT OF CENTERLINE, UP TO 154 FT MSL.TREES BEGINNING 902 FT FROM DER, 609 FT RIGHT OF CENTERLINE, UP TO 172 FT MSL.TREE 1298 FT FROM DER, 370 FT LEFT OF CENTERLINE, 155 FT MSL.TREES BEGINNING 1701 FT FROM DER, 140 FT LEFT OF CENTERLINE, UP TO 174 FT MSL.TREE 3187 FT FROM DER, 139 FT LEFT OF CENTERLINE, 167 FT AGL/257 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 2, 20, 32: 1650 FT MSL AAO 383130.00N/1225518.00W  
RWY 14: 1650 FT MSL AAO 383130.00N/1225518.00W (CLIMB GRAIDENT), 2086 FT MSL AAO 382448.00N/1223730.00W (CLIMB-TO-ALTITUDE).  
RWY 2, 14, 20, 32: VISUAL CLIMB AREA OBSTACLE: 777 FT MSL TREE 383125.83N/1224510.16W.  
OBSTACLE OUTSIDE VISUAL CLIMB TO AREA MANDATING VCOA CLIMB TO ALTITUDE: 1356 FT MSL TOWER 380448.10N/1225202.00W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 2, 14, 20, 32: 4544 FT MSL AAO 384009.00N/1223800.00W.

**REMARKS:**

**FLIGHT INSPECTED BY**

DANIEL C FAVORITE

*Digitally signed by*

**JON DENTON**

Mar 30, 2021

**OFFICE**

FICO

**DATE**

3/26/2021

**DEVELOPED BY**

JON DENTON (JANTZEN TAYLOR)

*Digitally signed by*

**JON DENTON**

Mar 30, 2021

**OFFICE**

AJV-A432

**DATE**

01/07/2021



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>EFFECTIVE DATE</u>
CHARLES M SCHULZ-SONOMA COUNTY	KSTS	SANTA ROSA	CA	8	17 JUNE 2021

<u>APPROVED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LONNIE EVERHART	<b>JON DENTON</b> Mar 30, 2021	AJV-A430		MANAGER

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

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

**CHANGES - REASONS:**

1. CHANGED TAKEOFF MINIMUMS FROM: "RWY 2 STANDARD WITH MINIMUM CLIMB OF 319 FT PER NM TO 2400 OR 1200-2 1/2 FOR CLIMB IN VISUAL CONDITIONS TO "STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 2100 OR 1500-3 FOR CLIMB IN VISUAL CONDITIONS". CHANGED RWY 14 TAKEOFF MINIMUMS FROM "STANDARD" TO "STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 2500 OR 1500-3 FOR CLIMB IN VISUAL CONDITIONS. CHANGED RWY 20 TAKEOFF MINIMUMS FROM "STANDARD" TO "STANDARD WITH MINIMUM CLIMB OF 265 FT PER NM TO 2200 OR 1500-3 FOR CLIMB IN VISUAL CONDITIONS." CHANGED RWY 32 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 391 FT PER NM TO 2500 OR 1200-2 1/2 FOR CLIMB IN VISUAL CONDITIONS" TO "STANDARD WITH MINIMUM CLIMB OF 375 FT PER NM TO 2200 OR 1500-3 FOR CLIMB IN VISUAL CONDITIONS" - REDESIGNED DP AS SECTORIZED ODP DUE TO STS VOR DECOMMISSIONING.
2. CHANGED TEXTUAL DEPARTURE PROCEDURES FROM: RWY 2 "CLIMBING LEFT TURN HEADING 164.00" TO "CLIMBING LEFT TURN TO 2100 ON A HEADING BETWEEN 200.00 CW TO 305.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE". RWY 14 FROM "CLIMBING RIGHT TURN HEADING 250.00" TO "CLIMB TO 2500 ON A HEADING BETWEEN 110.00 CW TO 315.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE". RWY 20 FROM "CLIMB ON HEADING 190.00" TO "CLIMB TO 2200 ON A HEADING BETWEEN 100.00 CW TO 250.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE". RWY 32 "CLIMBING LEFT TURN HEADING 164.00" TO "CLIMBING LEFT TURN TO 2200 ON A HEADING BETWEEN 145.00 CW TO 315.00 FROM DEPARTURE END OF RUNWAY BEFORE PROCEEDING ON COURSE". - REDESIGNED DP AS SECTORIZED ODP DUE TO STS VOR DECOMMISSIONING.
3. CHANGED VCOA FROM "RWY 2, 32: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS STS VOR/DME SOUTHWEST BOUND AT OR ABOVE 1200" TO CLIMB IN VISUAL CONDITIONS TO CROSS CHARLES M SCHULZ - SONOMA COUNTY AIRPORT AT OR ABOVE 1400 BEFORE PROCEEDING SOUTHBOUND ON PYE R-349 TO PYE VOR/DME - STS VOR DECOMMISSIONING, PER ATC REQUEST, IAW .3D, 14-4.
4. UPDATED TAKEOFF OBSTACLE NOTES IAW NEW TARGETS EVALUATION.

