

**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 ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
KCMR	WILLIAMS	AZ	ORIG	5 OCTOBER 2023

**TAKEOFF MINIMUMS:**

**RWY 18:** STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 9500 OR 3400-3 FOR VCOA.

**RWY 36:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 7400 OR 3400-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 18:** CLIMB ON HEADING 177.67 TO 7100, THEN CLIMBING LEFT TURN ON A HEADING BETWEEN 360 CW 030 FROM DEPARTURE END OF RUNWAY.

**RWY 36:** CLIMB ON HEADING 357.66 TO 7700, THEN CLIMBING LEFT TURN ON A HEADING BETWEEN 250 CW 350 FROM DEPARTURE END OF RUNWAY.

**VISUAL CLIMB OVER AIRPORT:**

**RWYS 18, 36:** OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS H A CLARK MEMORIAL FIELD AIRPORT AT OR ABOVE 9900 BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 18:** POLE 7 FT FROM DER, 37 FT RIGHT OF CENTERLINE, 6 FT AGL/6692 FT MSL.

NAVAID 40 FT FROM DER, 124 FT LEFT OF CENTERLINE, 9 FT AGL/6693 FT MSL.

TERRAIN 69 FT FROM DER, 241 FT RIGHT OF CENTERLINE, 6693 FT MSL.

VEGETATION 198 FT FROM DER, 305 FT RIGHT OF CENTERLINE, 3 FT AGL/6696 FT MSL.

FENCE 215 FT FROM DER, 556 FT RIGHT OF CENTERLINE, 8 FT AGL/6697 FT MSL.

TREE 306 FT FROM DER, 170 FT LEFT OF CENTERLINE, 16 FT AGL/6699 FT MSL.

TREES BEGINNING 321 FT FROM DER, 340 FT RIGHT OF CENTERLINE, UP TO 6711 FT MSL.

TREE 337 FT FROM DER, 195 FT LEFT OF CENTERLINE, 19 FT AGL/6700 FT MSL.

TREE 391 FT FROM DER, 175 FT LEFT OF CENTERLINE, 19 FT AGL/6702 FT MSL.

TREES BEGINNING 444 FT FROM DER, 172 FT LEFT OF CENTERLINE, UP TO 6711 FT MSL.

TREES BEGINNING 494 FT FROM DER, 267 FT RIGHT OF CENTERLINE, UP TO 6714 FT MSL.

TREES BEGINNING 604 FT FROM DER, 158 FT LEFT OF CENTERLINE, UP TO 6719 FT MSL.

TREE 635 FT FROM DER, 258 FT RIGHT OF CENTERLINE, 6720 FT MSL.

TREES BEGINNING 651 FT FROM DER, 416 FT RIGHT OF CENTERLINE, UP TO 6726 FT MSL.

TREES BEGINNING 924 FT FROM DER, 426 FT RIGHT OF CENTERLINE, UP TO 6729 FT MSL.

TREE 1069 FT FROM DER, 387 FT LEFT OF CENTERLINE, 6725 FT MSL.

TREES BEGINNING 1192 FT FROM DER, 127 FT LEFT OF CENTERLINE, UP TO 6733 FT MSL.

TREE 1255 FT FROM DER, 95 FT RIGHT OF CENTERLINE, 29 FT AGL/6731 FT MSL.

TREE 1259 FT FROM DER, 613 FT RIGHT OF CENTERLINE, 6734 FT MSL.

TREES BEGINNING 1275 FT FROM DER, 246 FT RIGHT OF CENTERLINE, UP TO 6736 FT MSL.

TREE 1411 FT FROM DER, 265 FT LEFT OF CENTERLINE, 41 FT AGL/6737 FT MSL.

TREES BEGINNING 1428 FT FROM DER, 113 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/6744 FT MSL.

TREES BEGINNING 1452 FT FROM DER, 158 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/6738 FT MSL.

TREES BEGINNING 1483 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/6745 FT MSL.

TREE 1575 FT FROM DER, 215 FT LEFT OF CENTERLINE, 41 FT AGL/6740 FT MSL.

TREES BEGINNING 1619 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 52 FT AGL/6752 FT MSL.

TREE 2322 FT FROM DER, 360 FT RIGHT OF CENTERLINE, 6752 FT MSL.

TREE 2485 FT FROM DER, 706 FT RIGHT OF CENTERLINE, 6756 FT MSL.

TREE 3128 FT FROM DER, 1202 FT RIGHT OF CENTERLINE, 6770 FT MSL.

TREE 3389 FT FROM DER, 255 FT RIGHT OF CENTERLINE, 43 FT AGL/6777 FT MSL.

TREE 3493 FT FROM DER, 809 FT RIGHT OF CENTERLINE, 6779 FT MSL.

TREES BEGINNING 3571 FT FROM DER, 312 FT RIGHT OF CENTERLINE, UP TO 6785 FT MSL.

TREES BEGINNING 3630 FT FROM DER, 383 FT RIGHT OF CENTERLINE, UP TO 25 FT AGL/6792 FT MSL.

TREES BEGINNING 3671 FT FROM DER, 230 FT RIGHT OF CENTERLINE, UP TO 6811 FT MSL.

TREES BEGINNING 4165 FT FROM DER, 407 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/6799 FT MSL.

TREE 4201 FT FROM DER, 742 FT LEFT OF CENTERLINE, 6806 FT MSL.

TREE 4954 FT FROM DER, 781 FT LEFT OF CENTERLINE, 6821 FT MSL.

TREE 5223 FT FROM DER, 1377 FT LEFT OF CENTERLINE, 6841 FT MSL.

TREE 1 NM FROM DER, 810 FT LEFT OF CENTERLINE, 6860 FT MSL.

TREE 1.1 NM FROM DER, 2194 FT RIGHT OF CENTERLINE, 6865 FT MSL.

TREE 1.1 NM FROM DER, 2128 FT RIGHT OF CENTERLINE, 6873 FT MSL.

TREES BEGINNING 1.1 NM FROM DER, 2138 FT RIGHT OF CENTERLINE, UP TO 6886 FT MSL.

TREES BEGINNING 1.1 NM FROM DER, 1975 FT RIGHT OF CENTERLINE, UP TO 6887 FT MSL.

TREES BEGINNING 1.1 NM FROM DER, 2078 FT RIGHT OF CENTERLINE, UP TO 6898 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 1525 FT RIGHT OF CENTERLINE, UP TO 6913 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 1865 FT RIGHT OF CENTERLINE, UP TO 6933 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 1139 FT RIGHT OF CENTERLINE, UP TO 6963 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 1009 FT RIGHT OF CENTERLINE, UP TO 6966 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 1710 FT RIGHT OF CENTERLINE, UP TO 6973 FT MSL.

TREES BEGINNING 1.2 NM FROM DER, 1580 FT RIGHT OF CENTERLINE, UP TO 6980 FT MSL.

TREE 1.2 NM FROM DER, 2039 FT RIGHT OF CENTERLINE, 6986 FT MSL.

TREE, TERRAIN BEGINNING 1.2 NM FROM DER, 1309 FT RIGHT OF CENTERLINE, UP TO 7007 FT MSL.

TREES BEGINNING 1.3 NM FROM DER, 1013 FT RIGHT OF CENTERLINE, UP TO 7030 FT MSL.



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TREE 1.3 NM FROM DER, 1992 FT RIGHT OF CENTERLINE, 7040 FT MSL.  
 TREES BEGINNING 1.3 NM FROM DER, 903 FT RIGHT OF CENTERLINE, UP TO 7055 FT MSL.  
 TREES BEGINNING 1.3 NM FROM DER, 1023 FT RIGHT OF CENTERLINE, UP TO 7067 FT MSL.  
 TREES BEGINNING 1.3 NM FROM DER, 1128 FT RIGHT OF CENTERLINE, UP TO 7073 FT MSL.  
 TREES BEGINNING 1.3 NM FROM DER, 1540 FT RIGHT OF CENTERLINE, UP TO 7100 FT MSL.  
 TREES BEGINNING 1.3 NM FROM DER, 891 FT RIGHT OF CENTERLINE, UP TO 7156 FT MSL.  
 TREE, TERRAIN BEGINNING 1.3 NM FROM DER, 1104 FT RIGHT OF CENTERLINE, UP TO 7160 FT MSL.  
 TREE, TERRAIN BEGINNING 1.3 NM FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/7193 FT MSL.  
 TREE 1.3 NM FROM DER, 577 FT LEFT OF CENTERLINE, 6898 FT MSL.  
 TREES BEGINNING 1.3 NM FROM DER, 81 FT LEFT OF CENTERLINE, UP TO 6912 FT MSL.  
 TREES BEGINNING 1.4 NM FROM DER, 233 FT LEFT OF CENTERLINE, UP TO 6929 FT MSL.  
 TREES BEGINNING 1.4 NM FROM DER, 121 FT LEFT OF CENTERLINE, UP TO 6934 FT MSL.  
 TREES BEGINNING 1.4 NM FROM DER, 194 FT LEFT OF CENTERLINE, UP TO 6940 FT MSL.  
 TREES BEGINNING 1.4 NM FROM DER, 68 FT LEFT OF CENTERLINE, UP TO 6956 FT MSL.  
 TREE, TERRAIN BEGINNING 1.4 NM FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 6960 FT MSL.  
 TREE, TERRAIN BEGINNING 1.5 NM FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 6966 FT MSL.  
 TREES BEGINNING 1.5 NM FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 46 FT AGL/6977 FT MSL.  
 TREE 1.9 NM FROM DER, 3407 FT RIGHT OF CENTERLINE, 6992 FT MSL.

**NOTE: RWY 36:** LIGHT POLES 7 FT FROM DER, 36 FT LEFT OF CENTERLINE, 2 FT AGL/6632 FT MSL.  
 TREES BEGINNING 10 FT FROM DER, 368 FT LEFT OF CENTERLINE, UP TO 6640 FT MSL.  
 TREES BEGINNING 72 FT FROM DER, 177 FT LEFT OF CENTERLINE, UP TO 18 FT AGL/6645 FT MSL.  
 TREES BEGINNING 114 FT FROM DER, 289 FT RIGHT OF CENTERLINE, UP TO 6642 FT MSL.  
 TREES BEGINNING 400 FT FROM DER, 410 FT RIGHT OF CENTERLINE, UP TO 6645 FT MSL.  
 TREES BEGINNING 2 NM FROM DER, 2541 FT LEFT OF CENTERLINE, UP TO 7011 FT MSL.  
 TREES BEGINNING 2 NM FROM DER, 2885 FT LEFT OF CENTERLINE, UP TO 7104 FT MSL.  
 TREE 2.1 NM FROM DER, 3044 FT LEFT OF CENTERLINE, 13 FT AGL/7146 FT MSL.  
 TREE 2.1 NM FROM DER, 3577 FT LEFT OF CENTERLINE, 16 FT AGL/7164 FT MSL.  
 ANTENNA, TREES BEGINNING 2.1 NM FROM DER, 2316 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/7179 FT MSL.  
 BUILDING, TREE BEGINNING 2.5 NM FROM DER, 1502 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/7203 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 18:** 7880 FT MSL AAO 351436.42N/1120958.21W (CLIMB GRADIENT), 9589 FT MSL AAO 352033.19N/1120021.75W (CLIMB-TO ALTITUDE).  
**RWY 36:** 7179 FT MSL ANTENNA 352101.20N/1121145.57W.

**VISUAL CLIMB AREA OBSTACLE:**

**RWY 18, 36:** 7900 FT MSL AAO 351404.29N/1120948.06W.

**OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE:**

**RWY 18, 36:** 12800 FT MSL AAO 352047.27N/1114040.36W.

**REMARKS:**

100 FT VEGETATION USED.

**FLIGHT INSPECTED BY**

THOMAS MOLOKIE

*Digitally signed by*  
**DAVID TEFFETELLER**  
 Jul 07, 2023

**OFFICE**

FIOG

**DATE**

01/05/2023

**DEVELOPED BY**

RAFAEL A MARTINEZ

*Digitally signed by*  
**DAVID TEFFETELLER**  
 Jul 07, 2023

**OFFICE**

AJV-A433

**DATE**

04/10/2023

**APPROVED BY**

JOHNNIE BAKER

*Digitally signed by*  
**DAVID TEFFETELLER**  
 Jul 07, 2023

**OFFICE**

AJV-A430

**DATE**

**TITLE**

MANAGER

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZAB ARTCC, PRC FSS, AMGR

**CHANGES - REASONS:**

04/10/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/19/2022.

1. RWY 18 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMB ON A HEADING BETWEEN 360 CW 030 FROM DEPARTURE END OF RUNWAY" TO "CLIMB ON HEADING 177.67 TO 7100, THEN CLIMBING LEFT TURN ON A HEADING BETWEEN 360 CW 030 FROM DEPARTURE END OF RUNWAY" - PER 01/25/2023 FLIGHT INSPECTION RESULT: LEFT TURN VERBIAGE REQUIRED TO PREVENT PILOT FROM MAKING A RIGHT TURN INTO TERRAIN SOUTH WEST OF RWY 18 DEPARTURE END.

2. RWY 36 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMB ON A HEADING BETWEEN 250 CW 350 FROM DEPARTURE END OF RUNWAY" TO "CLIMB ON HEADING 357.66 TO 7700, THEN CLIMBING LEFT TURN ON A HEADING BETWEEN 250 CW 350 FROM DEPARTURE END OF RUNWAY" - PER 01/25/2023 FLIGHT INSPECTION RESULT: OBSTACLE JUST BEYOND DEPICTED DEPARTURE CORRIDOR TERPS ANALYSIS PRESENTS A HAZARD TO AIRCRAFT MAKING LEFT TURN TO HEADINGS BETWEEN 250 CW 350. THIS OBSTACLE IS LISTED IN THE RNAV (GPS)



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RWY 18 PROCEDURE (SDF SEGMENT) BUILDING (04-020666) 352133.36N/1121127.79W ELEV 7246 MSL.

3. CHANGED TAKEOFF MINIMUMS RWY 36 MINIMUM CLIMB OF 337 FT PER NM TO 340 FT PER NM DUE TO A DIFFERENCE IN THE WAY TARGETS CALCULATES CG FOR OBSTACLES OUTSIDE THE ICA VERSUS INSIDE THE ICA.

7/7/23 THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 4/8/23  
CHANGED STATE FROM AR TO AZ ALL PAGES

