

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>
WINDOW ROCK, AZ	WINDOW ROCK	12/5/2019	2

TAKEOFF MINIMUMS:

RWY 3: 800-3 WITH MINIMUM CLIMB OF 385 FT PER NM TO 8100 OR STANDARD WITH MINIMUM CLIMB OF 565 FT PER NM TO 7700 OR 1600-3 FOR VCOA.

RWY 21: STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 8100 OR 1600-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 3: CLIMB ON HEADING 025.05 TO 7500, THEN RIGHT TURN TO INTERCEPT GUP VORTAC R-321 TO GUP VORTAC BEFORE PROCEEDING ON COURSE.

RWY 21: CLIMB ON HEADING 205.06 TO 7400 THEN LEFT TURN DIRECT GUP VORTAC BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 3/21: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS WINDOW ROCK AIRPORT AT OR ABOVE 8200 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 03, VEGETATION BEGINNING 32 FT FROM DER, 73 FT LEFT OF CENTERLINE, UP TO 6745 FT MSL.

BUILDING 416 FT FROM DER, 609 FT RIGHT OF CENTERLINE, 19 FT AGL/6766 FT MSL.

POLES BEGINNING 477 FT FROM DER, 344 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/6772 FT MSL.

TREE, POLE BEGINNING 1336 FT FROM DER, 114 FT LEFT OF CENTERLINE, UP TO 6796 FT MSL.

SIGN 1380 FT FROM DER, 109 FT RIGHT OF CENTERLINE, 29 FT AGL/6777 FT MSL.

POLE 1448 FT FROM DER, 291 FT RIGHT OF CENTERLINE, 39 FT AGL/6788 FT MSL.

TREE 1586 FT FROM DER, 392 FT LEFT OF CENTERLINE, 6806 FT MSL.

SIGN, POLE BEGINNING 1774 FT FROM DER, 225 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/6805 FT MSL.

POLE 1868 FT FROM DER, 746 FT LEFT OF CENTERLINE, 38 FT AGL/6823 FT MSL.

POLE 3038 FT FROM DER, 91 FT RIGHT OF CENTERLINE, 40 FT AGL/6824 FT MSL.

POLE 3356 FT FROM DER, 457 FT LEFT OF CENTERLINE, 31 FT AGL/6840 FT MSL.

TREE 3532 FT FROM DER, 613 FT LEFT OF CENTERLINE, 6850 FT MSL.

TREE 3801 FT FROM DER, 682 FT LEFT OF CENTERLINE, 6871 FT MSL.

VERTICAL STRUCTURE, POLES BEGINNING 3832 FT FROM DER, 57 FT RIGHT OF CENTERLINE, UP TO 6926 FT MSL.

POLE 4044 FT FROM DER, 310 FT LEFT OF CENTERLINE, 44 FT AGL/6874 FT MSL.

TREE 4616 FT FROM DER, 625 FT LEFT OF CENTERLINE, 6888 FT MSL.

VERTICAL STRUCTURE 5938 FT FROM DER, 147 FT RIGHT OF CENTERLINE, 7024 FT MSL.

POLE, VERTICAL STRUCTURES, TOWERS BEGINNING 1 NM FROM DER, 59 FT LEFT OF CENTERLINE, UP TO 6 FT AGL/7083 FT MSL.

TOWER, TREE BEGINNING 1.1 NM FROM DER, 102 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/7096 FT MSL.

TREES BEGINNING 1.3 NM FROM DER, 2063 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/7309 FT MSL.

VERTICAL STRUCTURES BEGINNING 1.4 NM FROM DER, 1852 FT LEFT OF CENTERLINE, UP TO 7127 FT MSL.

TREES BEGINNING 1.4 NM FROM DER, 121 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/7369 FT MSL.

VERTICAL STRUCTURE, TREE BEGINNING 1.5 NM FROM DER, 628 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/7139 FT MSL.

TREES BEGINNING 1.6 NM FROM DER, 875 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/7375 FT MSL.

TREE 1.8 NM FROM DER, 357 FT LEFT OF CENTERLINE, 50 FT AGL/7351 FT MSL.

TREE 1.9 NM FROM DER, 77 FT LEFT OF CENTERLINE, 50 FT AGL/7369 FT MSL.

TREE 2.1 NM FROM DER, 26 FT LEFT OF CENTERLINE, 50 FT AGL/7429 FT MSL.

TREE 2.4 NM FROM DER, 2921 FT RIGHT OF CENTERLINE, 50 FT AGL/7449 FT MSL.

NOTE: RWY 21, TREE 955 FT FROM DER, 382 FT LEFT OF CENTERLINE, 6736 FT MSL.

TREE 1018 FT FROM DER, 620 FT LEFT OF CENTERLINE, 6768 FT MSL.

CONTROLLING OBSTACLES:

RWY 3: 7309 FT MSL TREE 354027.67N/1090217.91W (565 CG), 7762 FT MSL AAO 354210.13N/1090015.36W (7700 CGTA), 7449 FT MSL TREE 354119.46N/1090130.40W (CEILING/VIS), 7719 FT MSL AAO 354136.12N/1090010.43W (385 CG/8100 CGTA).

RWY 21: 7789 FT MSL TOWER 353336.20N/1090627.82W.

VCOA: VISUAL CLIMB AREA OBSTACLE: 7762 FT MSL AAO 354210.13N/1090015.36W. OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 8128 FT MSL TOWER 354016.00N-1091230.00W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: **RWY 3:** 7309 FT MSL TREE 354007.16N/1090221.58W, **RWY 21:** 7721 FT MSL TREE 353625.39N/1090942.65W.

REMARKS:

50' VEGETATION APPLIED UNLESS OTHERWISE NOTED.



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CITY, STATE WINDOW ROCK, AZ	AIRPORT WINDOW ROCK	EFFECTIVE DATE 12/5/2019	AMDT NO 2
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FLIGHT INSPECTED BY: PENDING	Digitally signed by DAVID DANNER Sep 10, 2019	OFFICE SYMBOL:	DATE:
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DEVELOPED BY: DAVID DANNER (STEVEN DOUGHERTY)	Digitally signed by DAVID DANNER Sep 10, 2019	OFFICE SYMBOL: AJV-A421	DATE: 08/28/2019
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APPROVED BY: MARLON ROBINSON	Digitally signed by DAVID DANNER Sep 10, 2019	OFFICE SYMBOL: AJV-A420	DATE:
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REQUIRED EFFECTIVE DATE:
12/5/2019

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:
ZAB, AMGR

CHANGES - REASONS:

1. CHANGED RWY NUMBERS FROM 2/20 TO 3/21 - AIRPORT MAGVAR CHANGED.
2. ADDED VCOA TO BOTH RUNWAYS - DUE TO CLIMB GRADIENT REQUIREMENT/PER CHECKLIST.
3. UPDATED OBSTACLE NOTES ALL RUNWAYS - NEW TARGETS EVALUATION, IAW WITH OBSTACLE GROUPER.
4. UPDATED CONTROLLING OBSTACLES - NEW TARGETS EVALUATION.
5. CHANGED TEXTUAL DP FOR RWY 03 FROM "TURN RIGHT DIRECT GUP VORTAC BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 025.05 TO 7500, THEN RIGHT TURN TO INTERCEPT GUP VORTAC R-321 TO GUP VORTAC BEFORE PROCEEDING ON COURSE" - NEW TARGETS EVALUATION.
6. CHANGED TEXTUAL DP FOR RWY 21 FROM "TURN LEFT DIRECT GUP VORTAC BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 205.06 TO 7400 THEN LEFT TURN DIRECT GUP VORTAC BEFORE PROCEEDING ON COURSE" - NEW TARGETS EVALUATION.
7. CHANGED TAKEOFF MINIMUMS FOR RWY 3 FROM "700-2 OR STANDARD WITH MINIMUM OF 500 FT PER NM TO 8000" TO "800-3 WITH MINIMUM CLIMB OF 385 FT PER NM TO 8100 OR STANDARD WITH MINIMUM OF 565 FT PER NM TO 7700 OR 1600-3 FOR VCOA" - NEW TARGETS EVALUATION.
8. CHANGED TAKEOFF MINIMUMS FOR RWY 21 FROM "600-2 OR STANDARD WITH MINIMUM OF 260 FT PER NM TO 8200" TO "STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 8100 OR 1600-3 FOR VCOA" - NEW TARGETS EVALUATION.

