

**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>
HOT SPRINGS, AR	MEMORIAL FIELD	15 AUGUST 2019	7

TAKEOFF MINIMUMS:

RWY 23: STANDARD.

RWY 5: 600 - 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 382 FT PER NM TO 1300 OR 1600 - 3 FOR VCOA.

RWY 13: 300 - 2 1/4 OR STANDARD WITH MINIMUM CLIMB OR 210 FT PER NM TO 900 OR ALTERNATELY, WITH STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FEET PRIOR TO DER.

RWY 31: 400 - 1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 433 FT PER NM TO 1100.

TEXTUAL DEPARTURE PROCEDURES:

RWY 5: CLIMB ON HEADING 053.27 TO 2000 BEFORE TURNING WESTBOUND.

RWY 13: CLIMB ON HEADING 133.26 TO 1700 BEFORE PROCEEDING ON COURSE.

RWY 23: CLIMB ON HEADING 233.28 TO 1500 BEFORE PROCEEDING ON COURSE.

RWY 31: CLIMB ON HEADING 313.27 TO 1800 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 5: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS MEMORIAL FIELD AT OR ABOVE 2000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5: TREE, VEGETATION AND RISING TERRAIN BEGINNING 2 FT FROM DER, 452 FT RIGHT OF CENTERLINE, UP TO 550 FT MSL.

TREE 646 FT FROM DER, 565 FT RIGHT OF CENTERLINE, 590 FT MSL.

TREES BEGINNING 671 FT FROM DER, 507 FT RIGHT OF CENTERLINE, UP TO 592 FT MSL.

TREES BEGINNING 1041 FT FROM DER, 671 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/626 FT MSL.

TREES BEGINNING 1227 FT FROM DER, 485 FT RIGHT OF CENTERLINE, UP TO 595 FT MSL.

TREE AND NAVAID BEGINNING 1554 FT FROM DER, 300 FT LEFT OF CENTERLINE, UP TO 641 FT MSL.

TREES, POLE AND SPIRE BEGINNING 1886 FT FROM DER, 68 FT LEFT OF CENTERLINE, UP TO 654 FT MSL.

TREE 3500 FT FROM DER, 550 FT RIGHT OF CENTERLINE, 654 FT MSL.

TREE AND TOWER BEGINNING 3537 FT FROM DER, 715 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/661 FT MSL.

TREE 4466 FT FROM DER, 734 FT LEFT OF CENTERLINE, 687 FT MSL.

TOWER AND TREE BEGINNING 1.1 NM FROM DER, 1110 FT LEFT OF CENTERLINE, UP TO 92 FT AGL/ 24 FT MSL.

TREES BEGINNING 1.9 NM DER, 3374 FT LEFT OF CENTERLINE, UP TO 62 FT AGL/1096 FT MSL.

NOTE: RWY 13: TRAVERSE WAY 84 FT FROM DER, 437 FT RIGHT OF CENTERLINE, 512 FT MSL.

TREE 166 FT FROM DER, 524 FT RIGHT OF CENTERLINE, 49 FT AGL/534 FT MSL.

TREE 177 FT FROM DER, 350 FT RIGHT OF CENTERLINE, 45 FT AGL/542 FT MSL.

TREES BEGINNING 220 FT FROM DER, 307 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/545 FT MSL.

TREES BEGINNING 264 FT FROM DER, 474 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/573 FT MSL.

TREES BEGINNING 317 FT FROM DER, 94 FT LEFT OF CENTERLINE, UP TO 574 FT MSL.

TREES BEGINNING 434 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/546 FT MSL.

TREES BEGINNING 1749 FT FROM DER, 70 FT RIGHT OF CENTERLINE, UP TO 84 FT AGL/588 FT MSL.

TREES BEGINNING 2128 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/579 FT MSL.

TREE 2547 FT FROM DER, 809 FT LEFT OF CENTERLINE, 74 FT AGL/587 FT MSL.

TREES BEGINNING 2611 FT FROM DER, 544 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/601 FT MSL.

TREE 2664 FT FROM DER, 1013 FT LEFT OF CENTERLINE, 77 FT AGL/591 FT MSL.

TREE 2780 FT FROM DER, 731 FT RIGHT OF CENTERLINE, 75 FT AGL/603 FT MSL.

TREE 2902 FT FROM DER, 1188 FT LEFT OF CENTERLINE, 79 FT AGL/606 FT MSL.

TREE AND POLE BEGINNING 3043 FT FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/616 FT MSL.

TREE 3063 FT FROM DER, 53 FT LEFT OF CENTERLINE, 71 FT AGL/622 FT MSL.

TREE AND POLE BEGINNING 3175 FT FROM DER, 77 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/630 FT MSL.

POLES BEGINNING 3228 FT FROM DER, 261 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/631 FT MSL.

TREES BEGINNING 3296 FT FROM DER, 36 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/624 FT MSL.

TREE 3450 FT FROM DER, 511 FT LEFT OF CENTERLINE, 71 FT AGL/636 FT MSL.

TOWER 1.8 NM FORM DER, 2044 FT LEFT OF CENTERLINE, 355 FT AGL/802 FT MSL.

ANNTENNA 1.8 NM FROM DER, 2088 FT LEFT OF CENTERLINE, 319 FT AGL/804 FT MSL.



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NOTE: RWY 23: TREE 22 FT FROM DER, 314 FT LEFT OF CENTERLINE, 29 FT AGL/510 FT MSL.
TREE 606 FT FROM DER, 636 FT RIGHT OF CENTERLINE, 546 FT MSL.

NOTE: RWY 31: TREES BEGINNING 12 FT FROM DER, 136 FT LEFT OF CENTERLINE, UP TO 73 FT AGL/564 FT MSL.
TREES AND POLE BEGINNING 330 FT FROM DER, 113 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/577 FT MSL.
TRAVERSE WAY 451 FT FROM DER, 13 FT RIGHT OF CENTERLINE, 534 FT MSL.
TREES BEGINNING 472 FT FROM DER, 111 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/575 FT MSL.
TREES AND POLE BEGINNING 671 FT FROM DER, 137 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/580 FT MSL.
TREES BEGINNING 888 FT FROM DER, 71 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/581 FT MSL.
TREES BEGINNING 1002 FT FROM DER, 136 FT RIGHT OF CENTERLINE, UP TO 73 FT AGL/585 FT MSL.
TREES BEGINNING 1017 FT FROM DER, 155 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/588 FT MSL.
TREE 1488 FT FROM DER, 736 FT LEFT OF CENTERLINE, 58 FT AGL/592 FT MSL.
TREE 2975 FT FROM DER, 764 FT LEFT OF CENTERLINE, 65 FT AGL/610 FT MSL.
TREE 3109 FT FROM DER, 439 FT LEFT OF CENTERLINE, 69 FT AGL/614 FT MSL.
TREES BEGINNING 3193 FT FROM DER, 68 FT RIGHT OF CENTERLINE, UP TO 69 FT AGL/639 FT MSL.
TREE 3752 FT FROM DER, 320 FT LEFT OF CENTERLINE, 83 FT AGL/646 FT MSL.
TREE 4785 FT FROM DER, 1740 FT RIGHT OF CENTERLINE, 88 FT AGL/669 FT MSL.
TREE 5806 FT FROM DER, 1427 FT RIGHT OF CENTERLINE, 61 FT AGL/677 FT MSL.
BUILDING 1 NM FROM DER, 1897 FT RIGHT OF CENTERLINE, 53 FT AGL/724 FT MSL.
TRAVERSE WAY AND BUILDING BEGINNING 1.1 NM FROM DER, 1503 FT RIGHT OF CENTERLINE, UP TO 886 FT MSL.

CONTROLLING OBSTACLES:

RWY 5: 1096 FT MSL TREE 343035.28N/0930349.23W (CG AND CEILING), 1071 FEET MSL TREE 343043.87N/0930343.87W (VIS), 1301 FT MSL TOWER 343102.00N/0930246.00W (CGTA). VISUAL CLIMB AREA OBSTACLE: 1660 FT MSL TOWER 343019.00N/0930500.00W.

RWY 13: 804 FT MSL ANTENNA 342721.21N/0930327.51W.

RWY 31: 886 FT MSL TRAVERSE WAY 342955.36N/0930637.37W (CG/CGTA/CEILING), 800 FT MSL BUILDING 342954.33N/0930647.20W (VIS).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:

RWY 5, RWY 13, RWY 23, RWY 31: 1660 FT MSL TOWER 343019.00N/0930500.00W.

REMARKS:

FLIGHT INSPECTED BY:

MICHAEL S MILLER

Digitally signed by

WARDELL HENNING

Jun 18, 2019

OFFICE SYMBOL:

FICO

DATE:

6/12/2019

DEVELOPED BY:

WARDELL HENNING (ANDRE MARSH)

Digitally signed by

WARDELL HENNING

Jun 18, 2019

OFFICE SYMBOL:

AJV-A432

DATE:

04/09/2019

APPROVED BY:

LONNIE EVERHART

Digitally signed by

WARDELL HENNING

Jun 18, 2019

OFFICE SYMBOL:

AJV-A430

DATE:

QUALITY
18
CHECKED

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REQUIRED EFFECTIVE DATE:
CONCURRENT WITH AIRPORT MAGVAR UPDATE.

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:
ZME, AMGR

CHANGES - REASONS:

1. CHANGED TAKEOFF MINIMUMS FROM:
RWY 5: "STANDARD WITH MINIMUM CLIMB OF 430 FT PER NM TO 2100, OR 1600 2 1/2 FOR CLIMB IN VISUAL CONDITIONS" TO "600 - 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 382 FT PER NM TO 1300 OR 1600 - 3 FOR VCOA" - NEW OBSTACLE EVALUATION.
RWY 13: "300 - 2 1/4 OR STANDARD WITH MINIMUM CLIMB OR 208 FT PER NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER" TO "300 - 2 1/4 OR STANDARD WITH MINIMUM CLIMB OR 210 FT PER NM TO 900 OR ALTERNATELY, WITH STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FEET PRIOR TO DER." - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE.
RWY 31: "600 1 1/2 OR STANDARD WITH MINIMUM CLIMB OR 582 FT PER NM TO 2100" TO "400 - 1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 433 FT PER NM TO 1100" - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE.
2. CHANGED TEXTUAL DEPARTURE PROCEDURES FROM:
RWY 5: "CLIMB HEADING 050.27 TO 2000 BEFORE TURNING WESTBOUND, TO " CLIMB ON HEADING 053.27 TO 2000 BEFORE TURNING WESTBOUND" - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE AND AIRPORT MAGVAR CHANGE FROM 4E TO 1E.
RWY 13: "CLIMB HEADING 130.25 TO 1700 BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 133.26 TO 1700 BEFORE PROCEEDING ON COURSE" - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE AND AIRPORT MAGVAR CHANGE FROM 4E TO 1E.
RWY 23: "CLIMB HEADING 230.28 TO 1500 BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 233.28 TO 1500 BEFORE PROCEEDING ON COURSE" - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE AND AIRPORT MAGVAR CHANGE FROM 4E TO 1E.
RWY 31: "CLIMB HEADING 310.26 TO 1800 BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 313.27 TO 1800 BEFORE PROCEEDING ON COURSE" - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE AND AIRPORT MAGVAR CHANGE FROM 4E TO 1E.
3. UPDATED TAKEOFF OBSTACLE NOTES - AS REQUIRED WITH FULL AMENDMENT DUE TO AIRPORT MAGVAR CHANGE FROM 4E TO 1E.
4. UPDATED CONTROLLING OBSTACLES FOR ALL RWYS - NEW CRITERIA APPLIED WITH TARGETS SOFTWARE.
5. CHANGED RWY 5 VISUAL CLIMB OVER AIRPORT INSTRUCTIONS FROM "FOR CLIMB IN VISUAL CONDITIONS CROSS MEMORIAL FIELD AT OR ABOVE 2000 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE" TO " OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS MEMORIAL FIELD AT OF ABOVE 2000 BEFORE PROCEEDING ON COURSE.

6/17/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 5/14/19

1. CORRECTED AIRPORT DATA BLOCK TO REFLECT MEMORIAL FIELD - REMOVED (KHOT) FROM AIRPORT ID DATA BLOCK.

