

**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.

<b>CITY, STATE</b>	<b>AIRPORT</b>	<b>EFFECTIVE DATE</b>	<b>AMDT NO</b>
MUSCATINE, IA	MUSCATINE MUNI	17 AUGUST 2017	3

**TAKEOFF MINIMUMS:**

**RWY 6, 12:** STANDARD

**RWY 24,** 300-2, OR STANDARD WITH MINIMUM CLIMB OF 220 FEET PER NM TO 1000.

**RWY 30,** 300-1 5/8, OR STANDARD WITH MINIMUM CLIMB OF 310 FEET PER NM TO 1000.

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 1:** CLIMB HEADING 059.50 TO 2300 BEFORE PROCEEDING ON COURSE.

**RWY 12:** CLIMB HEADING 123.00 TO 2300 BEFORE PROCEEDING ON COURSE.

**RWY 24:** CLIMB HEADING 239.51 TO 2300 BEFORE PROCEEDING ON COURSE.

**RWY 30:** CLIMB HEADING 06.08 TO 2300 BEFORE PROCEEDING ON COURSE.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 06,** TREE 635 FT FROM DER, 549 FT RIGHT OF CENTERLINE, 560 FT MSL. TREE 1422 FT FROM DER, 640 FT RIGHT OF CENTERLINE, 582 FT MSL.

**NOTE: RWY 12,** NOTE: RWY 12, GRD 28 FT FROM DER, 211 FT RIGHT OF CENTERLINE, 544 FT MSL. BLDG, TREE BEGINNING 733 FT FROM DER, 586 FT RIGHT OF CENTERLINE, UP TO 577 FT MSL. ROD ON OL TOWER, AWOS BEGINNING 1122 FT FROM DER, 744 FT LEFT OF CENTERLINE, UP TO 580 FT MSL. POLE 1122 FT FROM DER, 744 FT LEFT OF CENTERLINE, 34 FT AGL/578 FT MSL.

**NOTE: RWY 24,** TREE 218 FT FROM DER, 531 FT LEFT OF CENTERLINE, 567 FT MSL. TREE 1922 FT FROM DER, 421 FT RIGHT OF CENTERLINE, 594 FT MSL. TREE 1949 FT FROM DER, 271 FT RIGHT OF CENTERLINE, 599 FT MSL. TREES BEGINNING 2566 FT FROM DER, 326 FT LEFT OF CENTERLINE, UP TO 616 FT MSL. TREE 1.4 NM FROM DER, 1830 FT RIGHT OF CENTERLINE, 768 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2028 FT LEFT OF CENTERLINE, UP TO 780 FT MSL. TREE 1.5 NM FROM DER, 683 FT LEFT OF CENTERLINE, 789 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 2257 FT RIGHT OF CENTERLINE, UP TO 794 FT MSL. TREE 1.5 NM FROM DER, 602 FT LEFT OF CENTERLINE, 795 FT MSL. TREE 1.5 NM FROM DER, 2856 FT RIGHT OF CENTERLINE, 802 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 807 FT MSL. TREE 1.7 NM FROM DER, 1965 FT RIGHT OF CENTERLINE, 810 FT MSL. TREE 1.7 NM FROM DER, 3227 FT RIGHT OF CENTERLINE, 815 FT MSL. TREE 1.7 NM FROM DER, 1971 FT RIGHT OF CENTERLINE, 815 FT MSL. TREE 1.7 NM FROM DER, 355 FT LEFT OF CENTERLINE, 827 FT MSL.

**NOTE: RWY 30,** NAVAID, REIL BEGINNING 20 FT FROM DER, 79 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/537 FT MSL. FENCE BEGINNING 28 FT FROM DER, 499 FT RIGHT OF CENTERLINE, UP TO 543 FT MSL. TREE, FENCE BEGINNING 54 FT FROM DER, 500 FT LEFT OF CENTERLINE, UP TO 544 FT MSL. TREE 383 FT FROM DER, 333 FT RIGHT OF CENTERLINE, 546 FT MSL. TREES BEGINNING 420 FT FROM DER, 485 FT LEFT OF CENTERLINE, UP TO 577 FT MSL. TREE, BLDG, ELEVATOR BEGINNING 658 FT FROM DER, 308 FT LEFT OF CENTERLINE, UP TO 591 FT MSL. POLE BEGINNING 1752 FT FROM DER, 826 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/593 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 2284 FT LEFT OF CENTERLINE, UP TO 757 FT MSL. TREE 1.2 NM FROM DER, 2386 FT LEFT OF CENTERLINE, 779 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 2062 FT LEFT OF CENTERLINE, UP TO 821 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1392 FT LEFT OF CENTERLINE, UP TO 837 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1044 FT LEFT OF CENTERLINE, UP TO 846 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1363 FT LEFT OF CENTERLINE, UP TO 847 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 1136 FT LEFT OF CENTERLINE, UP TO 848 FT MSL. TREE, BLDG, GROUND BEGINNING 1.3 NM FROM DER, 0 FT OF CENTERLINE, UP TO 852 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 857 FT MSL. TREE, GROUND, POLE BEGINNING 1.5 NM FROM DER, 51 FT LEFT OF CENTERLINE, UP TO 860 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 117 FT LEFT OF CENTERLINE, UP TO 861 FT MSL. TREE 2 NM FROM DER, 418 FT LEFT OF CENTERLINE, 852 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 24:** 789 FT MSL TREE 412051.04N/0911054.12W, 827 FT MSL TREE 412045.38N/0911118.41W

**RWY 30:** 846 FT MSL TREE 412250.43N/0911112.00W.

OBSTACLE MANDATING DEPARTURE ROUTE DEVELOPMENT:

**RWY 6, 12, 24, 30,** 1190 FT MSL STACK 411905.00N/0910535.00W



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**REMARKS:**

**FLIGHT INSPECTED BY:**

PAUL R ARMSTRONG

*Digitally signed by*

**ALLAN WILL**

Jul 05, 2017

**OFFICE SYMBOL:**

FICO

**DATE:**

6/16/17

**DEVELOPED BY:**

VICTOR B. NASO (KELLIE R. BARNES)

*Digitally signed by*

**ALLAN WILL**

Jul 05, 2017

**OFFICE SYMBOL:**

AJV-5413

**DATE:**

04/10/2017

**APPROVED BY:**

GEORGE E. DAVIS

*Digitally signed by*

**ALLAN WILL**

Jul 05, 2017

**OFFICE SYMBOL:**

AJV-5410

**DATE:**

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A**      **ALPA**      **AOPA**      **APA**      **HAI**      **NBAA**



**OTHER:**

ZAU, KMLI APCH CONT, AMGR

**CHANGES - REASONS:**

1. UPDATED TAKEOFF MINIMUMS RWYS 24 AND 30
  2. UPDATED TEXTUAL DEPARTURE PROCEDURES ALL RWYS.
  3. DOCUMENTED TAKEOFF OBSTACLES USING AJV APPROVED OBSTACLE GROUPE
  4. UPDATED CONTROLLING OBSTACLES RWY 24 AND 30
  5. RWY 12 COURSE CHANGED FROM 124.07 TO 123.00
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1. CANCELS FDC NOTAM 7/9593.
  2. USED NEW PHRASEOLOGY REQUIRED BY 8260.46A AND DDD DECOMMISSIONING
  3. REQUIRED BY 8260.46F
  4. NEW CONTROLLING OBSTACLES IDENTIFIED
  5. AVOID 1190 STACK

QUALITY  
4  
CHECKED