

**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>
KMSL	MUSCLE SHOALS	AL	1A	7 SEPTEMBER 2023

TAKEOFF MINIMUMS:

RWY 12, 18, 30: STANDARD.

RWY 36: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 239 FT/NM TO 800 OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FEET PRIOR TO DER.

TEXTUAL DEPARTURE PROCEDURES:

RWY 18: CLIMB ON HEADING 184.37 TO 1400 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

RWY 18, TREE 90 FT FROM DER, 306 FT LEFT OF CENTERLINE, 23 FT AGL/568 FT MSL. TREES BEGINNING 42 FT FROM DER, 325 FT RIGHT OF CENTERLINE, UP TO 98 FT AGL/617 FT MSL. POLE 1550 FT FROM DER, 151 FT LEFT OF CENTERLINE, 43 FT AGL/580 FT MSL.

RWY 30, TREES BEGINNING 981 FT FROM DER, 184 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/630 FT MSL. TREES BEGINNING 2727 FT FROM DER, 322 FT LEFT OF CENTERLINE, UP TO 97 FT AGL/627 FT MSL. TRAVERSE WAY 31 FT FROM DER, 252 FT RIGHT OF CENTERLINE, 558 FT MSL. POLE 839 FT FROM DER, 594 FT LEFT OF CENTERLINE, 39 FT AGL/569 FT MSL.

RWY 36, TREES BEGINNING 622 FT FROM DER, 89 FT LEFT OF CENTERLINE, UP TO 105 FT AGL/621 FT MSL. TREES BEGINNING 196 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 73 FT AGL/598 FT MSL. POLES BEGINNING 499 FT FROM DER, 320 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/575 FT MSL. POLES BEGINNING 420 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/569 FT MSL. BLDG 9 FT FROM DER, 437 FT RIGHT OF CENTERLINE, 21 FT AGL/557 FT MSL. COMM TWR 5329 FT FROM DER, 469 FT LEFT OF CENTERLINE, 161 FT AGL/698 FT MSL.

CONTROLLING OBSTACLES:

RWY 36: 698 FT MSL TOWER 344556.07N/0873700.69W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 18: 1670 FT MSL TOWER 344024.00N/0874256.00W.

REMARKS:

FLIGHT INSPECTED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

Digitally signed by
FIOG **RAKE MCGRAW**
Apr 27, 2023

DATE

01/09/2014

DEVELOPED BY

RAKE MCGRAW (NEERAJ VERMA)

Digitally signed by

RAKE MCGRAW
Apr 27, 2023

OFFICE

AJV-A422

DATE

04/21/2023

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW
Apr 27, 2023

OFFICE

AJV-A422

DATE

09/07/2023

TITLE

MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒

OTHER:

ZME APP/DEP CON, MSL ATCT, AMGR

CHANGES - REASONS:

1. CHANGED ALL REFERENCES FROM RWY 11/29 TO RWY 12/30. - PER KMSL RUNWAY NUMBER CHANGE AND TO REPLACE FDC 2/0051.

2. UPDATED TAKEOFF MINIMUMS RWY 36 FROM "239 FT PER NM" TO "239 FT/NM" - IAW 8260.19I.

3. UPDATED TEXTUAL DEPARTURE RWY 18 VERBIAGE FROM "CLIMB HEADING 184.37 TO 1400 BEFORE PROCEEDING ON COURSE." TO "RWY 18: CLIMB ON HEADING 184.37 TO 1400 BEFORE PROCEEDING ON COURSE." - IAW 8260.19I.

QUALITY
14
CHECKED