

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.

City, State	Airport	Effective Date	Amdt. No.
ROANOKE, VA	ROANOKE RGNL/WOODRUM FIELD		10

TAKEOFF MINIMUMS:

RWY 34 NA - OBSTACLES.

RWY 6, STANDARD WITH MINIMUM CLIMB OF 585 FT PER NM TO 3000, OR 2500-3 FOR CLIMB IN VISUAL CONDITIONS...

RWY 16, STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 3000, OR 2500-3 FOR CLIMB IN VISUAL CONDITIONS...

RWY 24, STANDARD WITH MINIMUM CLIMB OF 242 FT PER NM TO 2800, OR 2500-3 FOR CLIMB IN VISUAL CONDITIONS...

TEXTUAL DEPARTURE PROCEDURES:

RWY 6 – CLIMB HEADING 057.72 TO 3000 BEFORE PROCEEDING ON COURSE.

RWY 16 – CLIMB HEADING 155.92 TO 3000 BEFORE PROCEEDING ON COURSE.

RWY 24 – CLIMB ON I-SZK LDA LOCALIZER WEST COURSE TO 4200 TO DIXXY INT/I-SZK 15.25 DME BEFORE PROCEEDING ON COURSE.

RWY 6, 16, 24: FOR CLIMB IN VISUAL CONDITIONS, CROSS ROANOKE RGNL/WOODRUM FIELD AT OR ABOVE 3500 FT BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6, TREES BEGINNING 82' FROM DER, 448' LEFT OF CENTERLINE, UP TO 100' AGL/1179' MSL. TREES AND BUSHES BEGINNING 87' FROM DER, 339' RIGHT OF CENTERLINE, UP TO 100' AGL/1199' MSL. TREES BEGINNING 2.6 NM FROM DER, 2152' LEFT OF CENTERLINE, UP TO 100' AGL/2339' MSL. TOWERS BEGINNING 2.89 NM FROM DER, 3454' LEFT OF CENTERLINE, UP TO 207' AGL/2407' MSL.

NOTE: RWY 16, SIGN 39' FROM DER, 251' LEFT OF CENTERLINE, 24' AGL/1144 MSL. TREES BEGINNING 1.1 NM FROM DER, 2122' LEFT OF CENTERLINE, UP TO 76' AGL/1336' MSL. TOWER 4.2 NM FROM DER, 3291' RIGHT OF CENTERLINE, 236' AGL/1980' MSL.

NOTE: RWY 24, BUSH, SIGN, AND TREES BEGINNING 41' FROM DER, 248' LEFT OF CENTERLINE, UP TO 100' AGL/1259' MSL. TREES BEGINNING 150' FROM DER, 414' RIGHT OF CENTERLINE, UP TO 67' AGL/1206' MSL.

CONTROLLING OBSTACLES:

RWY 6: 3199 MSL AAO 372603.31N/0795954.80W

RWY 16: 3771 MSL AAO 370702.56N/0800055.85W

RWY 24: 2339 MSL AAO 371524.24N/0800530.72W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 6: 3299 MSL AAO 372037.01N/0800410.10W

RWY 24: 2879 MSL AAO 371455.53N/0800503.89W, 3299 MSL AAO 371317.97N/0800649.86W, 3963 TOWER 371203.27N/0800852.81W, 4011 MSL TOWER 371145.00N/0800917.00W



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REMARKS:

RAPIDLY RISING / PRECIPITOUS TERRAIN NEAR VICINITY OF AIRPORT.

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

BILL SETTLEMIRE FIOG 8/18/2012

ROUTINE

DEVELOPED BY:

DAN POWELL AJV-352 5/21/2012

APPROVED BY:

DARRYEL ADAMS AJV-352

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ROA APP CON, ROA ATCT, AMGR

CHANGES:

1. ADDED TAKEOFF MINS /DP AND VCOA OPTION TO RWY 6.
2. REVISED TAKEOFF OBSTACLE NOTES SECTION / ADDED NOTES FOR RWY 6.

REASONS:

1. FPT REQUEST.
2. IAW 8260.46D, APPENDIX D.

9/25/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 5/21/2012. PER FC, ROA VORTAC UNUSABLE PER RWY 16 DEPARTURE.

1. REVISED RWY 16 TAKEOFF MINIMUMS FROM 300-1 ½ OR STANDARD WITH 220 FT PER NM TO 1400 TO 420 FT PER NM TO 3000; ADDED VCOA OPTION.
2. REVISED RWY 16 TEXTUAL DP FROM INTERCEPTING ROA VORTAC R-124 TO CLIMB TO 3000 BEFORE PROCEEDING ON COURSE.
3. REVISED RWY 16 CONTROLLING OBSTACLES AND TAKEOFF OBSTACLE NOTES.



RADIO FIX AND HOLDING DATA RECORD

NAME: DIXXY

STATE: VA

COUNTRY: US

LATITUDE/LONGITUDE: 371240.53N/0801553.02W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	ROANOKE	I-SZK	LOC/DME		252.25	244.25	15.25	15.24		4200	5600
2	GREENBRIER	LWB	VOR/DME	L	179.13	171.13	39.58	39.58		4200	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ROANOKE (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DIXXY	1, 2		KROA	ROANOKE	VA (US)
DP	SCUTA (RNAV)			KROA	ROANOKE	VA (US)
DP	TAKEOFF MINIMUMS	1, 2		KROA	ROANOKE	VA (US)
IAP	RNAV (GPS) RWY 6			KROA	ROANOKE	VA (US)

REQUIRED CHARTING: DP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 11/15/2012

REASON FOR REVISION:

ADDED FAC 1 FIX COORDINATE ESTABLISHMENT REMARK.
FAC 2 DME / DIST FROM FAC CHANGED FROM 39.57 TO 39.58.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/18/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAN POWELL)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZDC
 ATC FACILITY: ROA APP CON
 OTHER:





Federal Aviation Administration

Memorandum

Date:

To: Manager, Flight Procedure Standards

From: Gregory Yamamoto
Manager, Aeronav Services Products Group

Subject: **ACTION:** Approval Request

TAKEOFF MINIMUMS, Amdt 10. Roanoke Rgnl/Woodrum field, Roanoke, VA.

Climb gradient exceeds 500 feet per NM, 8260.46d, Para. 2d(2).

The computed climb gradient is 585 feet per NM to an altitude 1849.30 feet above DER elevation for departures on RWY 6. The obstacle driving this climb gradient is a 3199 MSL AAO.

Request approval to publish a minimum climb gradient of 585 feet per NM to 3000 to allow 40:1 obstacle penetrations to be avoided.

Level of Safety:

The departure end of runway has an ANALPV survey. In addition, Roanoke Tower is a 24 hr facility, and departing aircraft will be radar monitored to assist with terrain avoidance. For aircraft unable to comply with the required CG, they will have the choice of flying the SCUTA SID (if navigationally equipped), the VCOA, or will be offered IFR departures from runways 16 or 24.

Attachments: 1 1:500K MAP displaying obstacles above 2480 msl with calculations.