

**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>
ALTOONA, PA	ALTOONA-BLAIR COUNTY	7 DECEMBER 2017	5

TAKEOFF MINIMUMS:

RWY 12, NA-OBSTACLES

RWY 03, STANDARD WITH MINIMUM CLIMB OF 270 FEET PER NM TO 2800 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 21, STANDARD WITH MINIMUM CLIMB OF 394 FEET PER NM TO 3200 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS

RWY 30, STANDARD WITH MINIMUM CLIMB OF 250 FEET PER NM TO 3600 OR 1600-3 FOR CLIMB IN VISUAL CONDITIONS

NOTE: CLIMB IN VISUAL CONDITIONS NOT AUTHORIZED AT NIGHT.

TEXTUAL DEPARTURE PROCEDURES:

RWY 03 - CLIMB HEADING 025.98 TO 2800 BEFORE PROCEEDING ON COURSE.

RWY 21- CLIMB HEADING 205.98 TO 3200 BEFORE PROCEEDING ON COURSE.

RWY 30- CLIMB HEADING 298.32 TO 3600 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS ALTOONA-BLAIR COUNTY AIRPORT AT OR ABOVE 3000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 03, TREE 60 FT FROM DER, 449 FT LEFT OF CENTERLINE, 1476 FT MSL. POLE 1124 FT FROM DER, 742 FT LEFT OF CENTERLINE, 50 FT AGL/1502 FT MSL. TREES BEGINNING 1538 FT FROM DER, 563 FT LEFT OF CENTERLINE, UP TO 1541 FT MSL. TREE 3130 FT FROM DER, 594 FT LEFT OF CENTERLINE, 1554 FT MSL. TREE 4577 FT FROM DER, 844 FT RIGHT OF CENTERLINE, 1584 FT MSL. TREE 4754 FT FROM DER, 827 FT RIGHT OF CENTERLINE, 1598 FT MSL. TREE 5619 FT FROM DER, 1199 FT RIGHT OF CENTERLINE, 1619 FT MSL. TREES BEGINNING 5762 FT FROM DER, 1364 FT RIGHT OF CENTERLINE, UP TO 1646 FT MSL. TREE 1 NM FROM DER, 1119 FT RIGHT OF CENTERLINE, 1648 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 1129 FT RIGHT OF CENTERLINE, UP TO 1658 FT MSL. TREES 1.4 NM FROM DER, 1628 FT RIGHT OF CENTERLINE, 200 FT AGL/1759 FT MSL.

NOTE: RWY 21, TREE 30 FT FROM DER, 422 FT LEFT OF CENTERLINE, 1525 FT MSL. FENCE 33 FT FROM DER, 249 FT RIGHT OF CENTERLINE, 4 FT AGL/1505 FT MSL. TREE, FENCE BEGINNING 50 FT FROM DER, 319 FT LEFT OF CENTERLINE, UP TO 1526 FT MSL. TREE 137 FT FROM DER, 371 FT LEFT OF CENTERLINE, 1528 FT MSL. POLE, TERRAIN, TREE BEGINNING 183 FT FROM DER, 265 FT LEFT OF CENTERLINE, UP TO 22 FT AGL/1536 FT MSL. TREE 881 FT FROM DER, 516 FT RIGHT OF CENTERLINE, 1546 FT MSL. TREES BEGINNING 1077 FT FROM DER, 43 FT RIGHT OF CENTERLINE, UP TO 1549 FT MSL. TREES BEGINNING 1249 FT FROM DER, 557 FT LEFT OF CENTERLINE, UP TO 1557 FT MSL. TREES BEGINNING 1273 FT FROM DER, 225 FT LEFT OF CENTERLINE, UP TO 1561 FT MSL. TREES BEGINNING 1774 FT FROM DER, 327 FT LEFT OF CENTERLINE, UP TO 1566 FT MSL. TREES BEGINNING 1857 FT FROM DER, 277 FT LEFT OF CENTERLINE, UP TO 1570 FT MSL. TREES BEGINNING 1923 FT FROM DER, 181 FT LEFT OF CENTERLINE, UP TO 1573 FT MSL. TREES BEGINNING 2174 FT FROM DER, 244 FT LEFT OF CENTERLINE, UP TO 1582 FT MSL. TREES BEGINNING 2532 FT FROM DER, 196 FT LEFT OF CENTERLINE, UP TO 1596 FT MSL. TREES BEGINNING 2916 FT FROM DER, 242 FT LEFT OF CENTERLINE, UP TO 1610 FT MSL.

NOTE: RWY 30, TREE 84 FT FROM DER, 257 FT RIGHT OF CENTERLINE, 1480 FT MSL. TREE 92 FT FROM DER, 102 FT LEFT OF CENTERLINE, 1479 FT MSL. TREE 978 FT FROM DER, 316 FT RIGHT OF CENTERLINE, 1499 FT MSL.

CONTROLLING OBSTACLES:

RWY 3: 2211 FT MSL AAO 402227.00N/0781903.00W

RWY 21: 2720 FT MSL AAO 401242.00N/0781948.00W

RWY 30: 3058 FT MSL AAO 402039.00N/0783112.00W

VCOA: 2693 FT MSL AAO 402106.00N/0782118.00W

REMARKS:

FLIGHT INSPECTED BY:

STEPHEN BAUER

Digitally signed by
ROBERT G HAMILTON

Sep 05, 2017

OFFICE SYMBOL:

FICO

DATE:

8/30/17

DEVELOPED BY:

JIMMY SANG HUGHES

Digitally signed by
JIMMY S HUGHES

Jul 21, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

06/13/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON

Sep 05, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

QUALITY
3
CHECKED

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CITY, STATE
ALTOONA, PA

AIRPORT
ALTOONA-BLAIR COUNTY

EFFECTIVE DATE
7 DECEMBER 2017

AMDT NO
5

COORDINATED WITH:

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

OTHER:
ZOB, AOO AIRPORT MANAGER

CHANGES - REASONS:
CHANGES:

1. CHANGED TEXTUAL DEPARTURE PROCEDURE FOR RWY 3 FROM "CLIMB DIRECT AOO VOR, THEN VIA AOO R-026 TO 2800 BEFORE PROCEEDING ON COURSE." TO "CLIMB HEADING 025.98 TO 2800 BEFORE PROCEEDING ON COURSE."
2. CHANGED TEXTUAL DEPARTURE PROCEDURE FOR RWY 21 FROM "CLIMB HEADING 203 AND AOO R-206 TO 3200 BEFORE PROCEEDING ON COURSE." TO "CLIMB HEADING 205.98 TO 3200 BEFORE PROCEEDING ON COURSE."
3. CHANGED TEXTUAL DEPARTURE PROCEDURE FOR RWY 30 FROM "CLIMB VIA HEADING 298 TO 3600 BEFORE PROCEEDING ON COURSE. FOR CLIMB IN VISUAL CONDITIONS, CROSS ALTOONA- BLAIR-COUNTY AIRPORT AT OR ABOVE 3000 BEFORE PROCEEDING ON COURSE." TO "CLIMB HEADING 298.32 TO 3600 BEFORE PROCEEDING ON COURSE."
4. CHANGED RWY 3 CLIMB GRADIENT AND CLIMB GRADIENT TERMINATION ALTITUDE FROM 265 FT PER NM TO 1900 TO 270 FT PER NM TO 2800.
5. CHANGED RWY 21 CLIMB GRADIENT AND CLIMB GRADIENT TERMINATION ALTITUDE FROM 350 FT PER NM TO 3200 TO 394 FT PER NM TO 3200.
6. CHANGED RWY 30 CLIMB GRADIENT AND CLIMB GRADIENT TERMINATION ALTITUDE FROM 230 FT PER NM TO 3600 TO 250 FT PER NM TO 3600.
7. UPDATED VCOA CONTROLLING OBSTACLE, ADDED CEILING AND VISIBILITY REQUIREMENTS FOR A VCOA FOR ALL ACTIVE RUNWAYS AND SPECIFIED VCOA PROCEDURES IN A SEPARATE ENTRY.

REASONS:

- 1-3. AOO VOR DECOMMISSIONED.
- 4-6. NEW CONTROLLING OBSTACLES.
7. NEW CONTROLLING OBSTACLE; ALL DEPARTURE PROCEDURES REQUIRE CLIMB GRADIENTS TO MITIGATE OBSTACLES MORE THAN 3 STATUTE MILES FROM DER; NEW DEPARTURE FORM SPECIFIES A SEPARATE ENTRY FOR VCOA PROCEDURE.



QUALITY
3
CHECKED