INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ABINGDON, VA

VIRGINIA HIGHLANDS (VJI) ..... **LOC Rwy 24[2]**
RNAV (GPS) Rwy 6[1]
RNAV (GPS) Rwy 24[1]
VOR/DME-B[1]

NA when local weather not available.
[1]Category C, 800-2¼, Category D, 800-2½.
[2]Categories A, B, 900-2, Category C, 900-2½, Category D, 1000-3.

ANNAPOLIS, MD

LEE (ANP).....**RNAV (GPS)-A**
NA when local weather not available.

BALTIMORE, MD

BALTIMORE-WASHINGTON INTL THURGOOD MARSHALL (BWI)..... **ILS or LOC Rwy 28[1]**
RNAV (GPS) Y Rwy 15R[3]
RNAV (GPS) Y Rwy 33L[3]
VOR Rwy 10[2]

[1]ILS, Categories A, B, C, 700-2; Category D 700-2¼; LOC, Category D, 800-2¼.
[2]Categories A, B, 1200-2; Category C, D 1200-3.
[3]Category D, 800-2¼.

MARTIN STATE (MTN) ..... **LDA Rwy 33[12]**
LOC Rwy 15[123]
RNAV (GPS) Rwy 15[2]
RNAV (GPS) Rwy 33[2]
VOR/DME or TACAN Z Rwy 15[3]

[1]NA when control tower closed.
[2]NA when local weather not available.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D 900-2¾.

BLACKSBURG, VA

VIRGINIA TECH/MONTGOMERY EXECUTIVE (BCB) ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

NAME ALTERNATE MINIMUMS

CHARLOTTESVILLE, VA

CHARLOTTESVILLE-ALBEMARLE (CHO) ..... **ILS or LOC Rwy 3[12]**
RNAV (GPS) Rwy 3[3]
RNAV (GPS) Y Rwy 21[4]
RNAV (GPS) Z Rwy 21[5]

NA when local weather not available.
[1]NA when control tower closed.
[2]Categories A, B, 1000-2; Categories C, D, 1000-3.
[3]Category D, 1000-3.
[4]Category D, 900-2¾.
[5]Categories, A, B, C, D, 1000-4.

COLLEGE PARK, MD

COLLEGE PARK (CGS) .....**RNAV (GPS) Rwy 15**
NA when local weather not available.

CULPEPER, VA

CULPEPER RGNL (CJR).....**LOC Rwy 4[1]**
NDB RWY 4[1]
RNAV (GPS) Rwy 4[2]
RNAV (GPS) Rwy 22[2]
VOR-A[2]

[1]NA when FBO closed.
[2]NA when local weather not available.

CUMBERLAND, MD

GREATER CUMBERLAND RGNL (CBE) ..... **LOC-A[1]**
LOC/DME Rwy 23
RNAV (GPS) Rwy 5[2]
RNAV (GPS) Rwy 23[3]

NA when local weather not available.
[1]Categories A, B, 1300-2, Category C 1300-3, Category D 1500-3.
[2]Categories A, B, 1500-2, Categories C, D, 1500-3.
[3]Categories A, B, 1100-2, Category C 1100-3.

NAME ALTERNATE MINIMUMS

DANVILLE, VA

DANVILLE RGNL (DAN) .....**ILS or LOC Rwy 2**
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
RNAV (GPS) Rwy 31
VOR Rwy 2
VOR Rwy 20[1]

NA when local weather not available.
[1]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

DUBLIN, VA

NEW RIVER VALLEY (PSK) ..... **RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
VOR-A[1]
VOR/DME Rwy 6

NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

EASTON, MD

EASTON/NEWNAM FIELD (ESN) ..... **ILS or LOC/DME Rwy 4**[1]
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 33

NA when local weather not available.
[1]ILS, LOC, NA when control tower closed.

EMPORIA, VA

EMPORIA-GREENSVILLE RGNL (EMV) ..... **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34

NA when local weather not available.

FARMVILLE, VA

FARMVILLE RGNL (FVX) ..... **NDB Rwy 3**[1]
RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 21

NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2½.

FELKER AAF (KFAF)

FORT EUSTIS, VA..... .....Orig 08297
NDB Rwy 14
COPTER NDB Rwy 14
RNAV (GPS) Rwy 14
COPTER RNAV (GPS) Rwy 14

NA when control tower closed.

FORT MEADE (ODENTON), MD

TIPTON (FME) ..... **RNAV (GPS) Rwy 28**

NA when local weather not available.

NAME ALTERNATE MINIMUMS

FRANKLIN, VA

FRANKLIN MUNI-JOHN BEVERLY ROSE (FKN) .....**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27

NA when local weather not available.

FREDERICK, MD

FREDERICK MUNI (FDK) ..... **RNAV (GPS) Rwy 5**[12]
RNAV (GPS) Y Rwy 23[1]
RNAV (GPS) Z Rwy 23[3]

[1]Category D, 800-2½.
[2]NA when local weather not available.
[3]Category C, 800-2¼; Category D, 900-2¾.

FREDERICKSBURG, VA

SHANNON (EZF).....**RNAV (GPS) Rwy 24**

Categories A, B, C, 1100-3
NA when local weather not available.

GAITHERSBURG, MD

MONTGOMERY COUNTY AIRPARK (GAI)..... **RNAV (GPS)-A**
RNAV (GPS) Rwy 14

NA when local weather not available.

GALAX/HILLSVILLE, VA

TWIN COUNTY (HLX) .....**RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19

NA when local weather not available.

GEORGETOWN, DE

SUSSEX COUNTY (GED) ....**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22
VOR Rwy 22

NA when local weather not available.

HAGERSTOWN, MD

HAGERSTOWN RGNL-RICHARD A. HENSON FIELD (HGR) ..... **ILS or LOC Rwy 9**[12]
ILS or LOC Rwy 27[13]
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
VOR Rwy 9

NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category D, 700-2.
[3]ILS, Categories A, B, C, D, 700-2.

HOT SPRINGS, VA

INGALLS FIELD (HSP) ..... **RNAV (GPS) Rwy 7**[1]
RNAV (GPS) Rwy 25[2]

NA when local weather not available.
[1]Categories A, B, 1000-2; Category C, 1000-2¾, Category D, 1000-3.
[2]Category C, 800-2¼; Category D, 800-2½.

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NAME ALTERNATE MINIMUMS

JONESVILLE, VA
LEE COUNTY (0VG) ..... **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25[1]
NA when local weather not available.
[1]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

LEESBURG, VA
LEESBURG
EXECUTIVE (JYO) ..... **RNAV (GPS) Rwy 17**
NA when local weather not available.

LEONARDTOWN, MD
ST. MARY'S COUNTY
RGNL (2W6) ..... **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

LOUISA, VA
LOUISA COUNTY/
FREEMAN FIELD (LKU) .... **RNAV (GPS) Rwy 27**
NA when local weather not available.

LURAY, VA
LURAY CAVERNS (LUA) ..... **NDB-A[1]**
RNAV (GPS) Rwy 4[2]
RNAV (GPS) Rwy 22[3]
VOR/DME-B[4]
NA when local weather not available.
[1]Categories A, B, 1500-2, Category C, 1500-3.
[2]Categories A, B, 1400-2, Category C, 1400-3.
[3]Categories A, B, 1000-2, Category C, 1000-2¾.
[4]Categories A, B, 1300-2, Category C, 1300-3.

LYNCHBURG, VA
LYNCHBURG RGNL/PRESTON GLENN
FIELD (LYH) ..... **ILS or LOC Rwy 4[12]**
RNAV (GPS) Rwy 4[3]
RNAV (GPS) Rwy 17[5]
RNAV (GPS) Rwy 22[3]
RNAV (GPS) Rwy 35[5]
VOR/DME Rwy 22[4]
VOR Rwy 4[3]
[1]ILS, LOC, NA when control tower closed.
[2]ILS, Categories A, B, 800-2;Category C, 900-2½, Category D, 900-2¾. LOC, Category C, 900-2½, Category D, 900-2¾.
[3]Category C, 900-2½; Category D, 900-2¾.
[4]Categories A, B, 900-2; Category C, 900-2½, Category D, 900-2¾.
[5]Category B, 900-2.

MARION/WYTHEVILLE, VA
MOUNTAIN
EMPIRE (MKJ) ..... **RNAV (GPS) Rwy 26**
NA when local weather not available.
Category C, 800-2¼.

NAME ALTERNATE MINIMUMS

MARTINSVILLE, VA
BLUE RIDGE (MTV) ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30[1]
NA when local weather not available.
[1]Category D, 800-2¼.

MELFA, VA
ACCOMACK
COUNTY (MFV) ..... **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
NA when local weather not available.

NEW MARKET, VA
NEW MARKET (8W2) ..... **RNAV (GPS)-A**
RNAV (GPS)-B
Categories A, B, 1100-3.
NA when local weather not available.

NEWPORT NEWS, VA
NEWPORT NEWS/WILLIAMSBURG
INTL (PHF) ..... **ILS or LOC Rwy 7[1]**
ILS or LOC Rwy 25[1]
LOC/DME Rwy 20[1]
NDB Rwy 2
NDB Rwy 20[2]
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 20
RNAV (GPS) Rwy 25
NA when local weather not available.
[1]NA when control tower closed.
[2]Categories A, B, 900-2, Category C, 900-2½, Category D, 900-2¾.

NORFOLK, VA
CHESAPEAKE
RGNL (CPK) ..... **ILS or LOC Rwy 5**
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
VOR/DME Rwy 23
NA when local weather not available.

OCEAN CITY, MD
OCEAN CITY
MUNI (OXB) ..... **RNAV (GPS) Rwy 2[1]**
RNAV (GPS) Rwy 32[12]
VOR-A[3]
[1]NA when local weather not available.
[2]Category D, 800-2¼.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

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NAME ALTERNATE MINIMUMS

ORANGE, VA

ORANGE COUNTY (OMH) ..... **RNAV (GPS) Rwy 8[1]**
RNAV (GPS) Rwy 26[1]
VOR/DME-A[2]

NA when local weather not available.
[1]Categories A, B, 900-2.
[2]Categories A, B, 1600-2.

PETERSBURG, VA

DINWIDDIE COUNTY (PTB)..... **RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23
VOR Rwy 23

NA when local weather not available.

PHILLIPS AAF (KAPG)

ABERDEEN PROVING GROUND, MD..... **NDB Rwy 22**
VOR Rwy 22
VOR/DME Rwy 22
RNAV (GPS) Rwy 22

NA when control tower closed.

RICHLANDS, VA

TAZEWELL COUNTY (JFZ)..... **LOC/DME Rwy 25**
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

RICHMOND, VA

RICHMOND INTL (RIC) ..... **ILS or LOC Rwy 16**
ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 800-2½.
LOC, Category C, 800-2¼; Category D, 800-2½.

RICHMOND/ASHLAND, VA

HANOVER COUNTY MUNI (OFP) ..... **RNAV (GPS) Rwy 16**
VOR Rwy 16[1]

NA when local weather not available.
[1]Category C, 800-2¼, Category D, 800-2½.

NAME ALTERNATE MINIMUMS

ROANOKE, VA

ROANOKE RGNL/WOODRUM FIELD (ROA)..... **ILS or LOC Rwy 34[1]**
LDA Rwy 6[2]
RNAV (GPS) Rwy 6[3]
RNAV (GPS) Rwy 24[4]
RNAV (GPS) Rwy 34[5]
VOR/NDB Rwy 34[6]

[1]ILS, LOC, Categories A, B, 900-2; Categories C, D, 900-2½.
[2]Categories A,B, 1600-2; Categories C,D, 1600-3.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[4]Categories A, B, 1900-2; Categories C, D, 1900-3.
[5]Categories A, B, 1200-2; Categories C, D, 1200-3.
[6]Categories A, B, 1400-2; Categories C, D, 1400-3.

SALISBURY, MD

SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)..... **ILS or LOC Rwy 32**
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy 32
VOR Rwy 5
VOR Rwy 23[1]
VOR Rwy 32

NA when local weather not available.
[1]Categories A, B, 1100-2; Categories C, D, 1100-3.

SOUTH HILL, VA

MECKLENBURG-BRUNSWICK RGNL (AVC)..... **LOC Rwy 1**
RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19

NA when local weather not available.

STAUNTON-WAYNESBORO-HARRISONBURG, VA

SHENANDOAH VALLEY RGNL (SHD) ..... **ILS or LOC Rwy 5[1]**
NDB Rwy 5
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23

NA when local weather not available.
[1]ILS, Category D, 700-2.

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NAME ALTERNATE MINIMUMS

SUFFOLK, VA

SUFFOLK
EXECUTIVE (SFQ) ..... **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 25
NA when local weather not available.

WALLOPS ISLAND, VA

WALLOPS FLIGHT
FACILITY (WAL) ..... **RNAV (GPS) Rwy 4[2]**
RNAV (GPS) Rwy 10[2]
RNAV (GPS) Rwy 17[2]
RNAV (GPS) Rwy 22[2]
RNAV (GPS) Rwy 28[2]
RNAV (GPS) Rwy 35[2]
VOR/DME or TACAN Rwy 10[1]
VOR or TACAN Rwy 17[2]
NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[2]Category D, 900-2¾.

WARRENTON, VA

WARRENTON-
FAQUIER (HWY)..... **RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
VOR Rwy 15[1]
NA when local weather not available.
[1]Cat D 800-2¼.

WASHINGTON, DC

MANASSAS RGNL/HARRY P DAVIS
FIELD (HEF)..... **ILS or LOC Rwy 16L[12]**
RNAV (GPS) Rwy 16L[13]
RNAV (GPS) Rwy 16R[13]
RNAV (GPS) Rwy 34R[3]
[1]NA when local weather not available
[2]ILS, Category C, 700-2; Category D, 700-2¼. LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

WASHINGTON, DC (CON'T)

RONALD REAGAN WASHINGTON
NATIONAL (DCA) ..... **ILS or LOC/DME Rwy 1[1]**
LDA/DME Rwy 19[2]
RNAV (GPS) RWY 33[3]
ROSSLYN LDA Rwy 19, 1100-3
VOR/DME or GPS Rwy 15[4]
VOR/DME or GPS Rwy 19[5]
VOR/DME Rwy 1[6]
[1]ILS, Categories A, B, C, 800-2; Category D, 800-2½. LOC, Category D, 800-2½.
[2]Category D, 800-2¼.
[3]Category C, 800-2¼; Category D, 800-2½.
[4]Categories A,B, 1000-2;Category C, 1000-2¾; Category D, 1000-3.
[5]Categories A, B, 1000-2; Categories C, D, 1000-3.
[6]Category D, 800-2½.

WASHINGTON
DULLES INTL (IAD) ... **ILS or LOC/DME Rwy 1C[1]**
ILS or LOC/DME Rwy 1L[1]
ILS or LOC/DME Rwy 12[1]
ILS or LOC/DME Rwy 19C[1]
ILS or LOC/DME Rwy 19R[1]
ILS or LOC Rwy 1R[1]
ILS or LOC Rwy 19L[1]
RNAV (GPS) Y Rwy 19R[2]
[1]ILS, Categories A, B, C, D, 700-2.
[2]Category D, 800-2¼.

WEST POINT, VA

MIDDLE PENINSULA
RGNL (FYJ) ..... **RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
VOR-A
NA when local weather not available.

WESTMINSTER, MD

CARROLL COUNTY RGNL/JACK B POAGE
FIELD (DMW) ..... **RNAV (GPS) Rwy 34**
NA when local weather not available.

WILLIAMSBURG, VA

WILLIAMSBURG-
JAMESTOWN (JGG) ..... **RNAV (GPS)-C**
VOR-B
NA when local weather not available.
Categories A, B, C, 1100-3.

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NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS

WILMINGTON, DE

NEW CASTLE (ILG) ..... **ILS or LOC Rwy 1[1]**
RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 19
RNAV (GPS) Rwy 27
VOR Rwy 9[1]
VOR Rwy 27[12]

NA when local weather not available.
[1]NA when control tower closed.
[2]Category D, 800-2¼.

WINCHESTER, VA

WINCHESTER
RGNL (OKV) ..... **RNAV (GPS) Rwy 14[1]**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.
[1]Category D, 800-2½.

WISE, VA

LONESOME
PINE (LNP) ..... **LOC/DME Rwy 24[12]**
RNAV (GPS) Rwy 6[12]
RNAV (GPS) Rwy 24[3]

[1]NA when local weather not available.
[2]Category D, 800-2¼.
[3]Category C, 800-2¼; Category D, 900-2¾.

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or radar vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

11 DEC 2014 to 08 JAN 2015

NAME TAKEOFF MINIMUMS

ABINGDON, VA

VIRGINIA HIGHLANDS (VJI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10266 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** 300-2 or 300-1¼ w/ min. climb of 225' per NM to 2500, or std. w/ min. climb of 749' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 6,** climb heading 061° and HMV VORTAC R-034 to 5500 before proceeding on course. **Rwy 24,** climb heading 241° to 3700 before proceeding on course.

NOTE: **Rwy 6,** vehicle 89' from DER, 411' left of centerline, 15' AGL/2094' MSL. Obstruction light 504' from DER, 314' left of centerline, 22' AGL/2122' MSL. Trees beginning 214' from DER, 245' right of centerline, up to 100' AGL/2240' MSL. Trees beginning 579' from DER, 35' left of centerline, up to 100' AGL/2379' MSL. **Rwy 24,** hangar vent 13' from DER, 496' left of centerline, 55' AGL/2086' MSL. Buildings 828' from DER, 628' left of centerline, up to 25' AGL/2084' MSL. Trees beginning 2222' from DER, 262' right of centerline, up to 100' AGL/2200' MSL. Tree 3592' from DER, 14' left of centerline, 100' AGL/2167' MSL.

NAME TAKEOFF MINIMUMS

ANNAPOLIS, MD

LEE (ANP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 01361 (FAA)

TAKEOFF MINIMUMS: **Rwy 30,** 300-1 or std. with a min. climb of 410' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 12,** climb runway heading to 700 before proceeding on course. **Rwy 30,** climb runway heading to 1000 before proceeding right on course. Climb runway heading to 700 before proceeding left on course.

NOTE: **Rwy 12,** cross DER at or above 35' AGL/66' MSL. **Rwy 30,** trees, 1433' from DER, 85' left of centerline, 100' AGL/139' MSL. Cross DER at or above 35' AGL/66' MSL.

BALTIMORE, MD
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 9 10266 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** 300-1½ or std. w/ min. climb of 210' per NM to 500, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER. **Rwy 33R,** std. w/ min. climb of 251' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 044° to 800 before turning left. **Rwy 28,** climb heading 285° to 900 before turning right. **Rwy 33L,** climb heading 320° to 2000 before turning right.

NOTE: **Rwy 4,** rod on lighted pole 1921' from DER, 329' right of centerline, 58' AGL/197' MSL. Light on pole 2177' from DER, 294' left of centerline, 58' AGL/197' MSL. Light on pole 1755' from DER, 482' right of centerline, 47' AGL/186' MSL. Tree 2370' from DER, 481' right of centerline, 60' AGL/199' MSL. Tank 1.2 NM from DER, 2274' left of centerline, 173' AGL/338' MSL. **Rwy 10,** building 52' from DER, 319' left of centerline, 13' AGL/133' MSL. **Rwy 15L,** trees beginning 648' from DER, 619' left of centerline, up to 68' AGL/167' MSL. Light on pole 921' from DER, 618' left of centerline, 62' AGL/161' MSL. **Rwy 15R,** trees beginning 1144' from DER, 740' right of centerline, up to 53' AGL/172' MSL. **Rwy 22,** light poles beginning 213' from DER, 365' left of centerline, up to 30' AGL/189' MSL. **Rwy 28,** tree 1392' from DER, 736' left of centerline, 77' AGL/176' MSL. **Rwy 33L,** fence 203' from DER, 517' right of centerline, 9' AGL/149' MSL. Tree 2250' from DER, 843' right of centerline, 66' AGL/205' MSL. Microwave antenna on building, 4725' from DER, 907' right of centerline, 126' AGL/265' MSL. Building 4693' from DER, 874' right of centerline, 127' AGL/266' MSL. Building-tower 4734' from DER, 907' right of centerline, 126' AGL/265' MSL. Building 4693' from DER, 874' right of centerline, 127' AGL/266' MSL. Building-tower 4734' from DER, 922' right of centerline, 140' AGL/260' MSL. **Rwy 33R,** trees beginning 2925' from DER, 321' left of centerline, up to 70' AGL/289' MSL. Trees beginning 975' from DER, 116' right of centerline, up to 83' AGL/262' MSL. Light on pole 2384' from DER, 837' right of centerline, 55' AGL/254' MSL. Light on pole 2736' from DER, 247' right of centerline, 17' AGL/216' MSL. Pole 3781' from DER, 370' right of centerline, 40' AGL/242' MSL. Building 998' from DER, 654' left of centerline, 24' AGL/183' MSL. Signal 2453' from DER, 904' left of centerline, 45' AGL/204' MSL. Light on pole 3869' from DER, 603' left of centerline, 72' AGL/251' MSL.

BALTIMORE, MD (CON'T)
MARTIN STATE (MTN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 00279 (FAA)

TAKEOFF MINIMUMS: **Rwy 15,** 800-2 or std. with a min. climb of 300' per NM to 1000. **Rwy 33**, 1300-2 or std. with a min. climb of 340' per NM to 1700'.

DEPARTURE PROCEDURE: **Rwy 15**, climb runway heading to 1000 before proceeding on course; or when directed by ATC, climbing right turn heading 190° to 1000 before proceeding on course.

NOTE: **Rwy 15,** trees 1960' from DER 684' left of centerline, 78' AGL/88' MSL, trees 3395' from DER, 585' left of centerline, 92' AGL/102' MSL. **Rwy 33,** pole 1553' from DER, across centerline, 68' AGL/90' MSL. Trees 2342' from DER, across centerline 86' AGL/108' MSL.

BLACKSBURG, VA
VIRGINIA TECH/MONTGOMERY EXECUTIVE (BCB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 11181 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** 400-1¼ or std. w/ min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwy 12,** climbing right turn direct PSK VORTAC to 3500 before proceeding on course. **Rwy 30,** climbing left turn direct PSK VORTAC to 4100 before proceeding on course.

NOTE: **Rwy 12,** trees beginning 19' from DER, 418' left of centerline, up to 100' AGL/ 2453' MSL. Trees beginning 242' from DER, 151' right of centerline, up to 100' AGL/ 2279' MSL. **Rwy 30,** rising terrain, trees, and poles beginning 3' from DER, 273' right of centerline, up to 45' AGL/ 2165' MSL. Rising terrain, trees, and poles beginning 90' from DER, 187' left of centerline, up to 100' AGL/ 2222' MSL. Vehicle on road beginning 567' from DER left and right of centerline up to 15' AGL/ 2146' MSL. Fence beginning 697' from DER, left and right of centerline, up to 10' AGL/2136' MSL.

BLACKSTONE, VA
ALLEN C. PERKINSON BLACKSTONE AAF (BKT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 14093 (FAA)

TAKEOFF MINIMUMS: **Rwys 1, 19,** NA - environmental.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 044° to 1300 before turning left.

NOTE: **Rwy 4,** sign and trees beginning 12' from DER, 177' left of centerline, up to 100' AGL/511' MSL. Trees beginning 779' from DER, 707' right of centerline, up to 100' AGL/508' MSL. **Rwy 22,** terrain, trees beginning 178' from DER, 426' left of centerline, up to 100' AGL/507' MSL. Trees beginning 2624' from DER, 325' right of centerline, up to 100' AGL/507' MSL.

NOTE: Do not overfly ammunition dump 1.1 NM south southwest of runway 4.

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BRIDGEWATER, VA
BRIDGEWATER AIRPARK (VBW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 11349 (FAA)
TAKEOFF MINIMUMS: **Rwy 15**, 300-2¼ w/ min. climb of 280'/NM to 3900, or std. w/ min. climb of 440'/NM to 2600, or 2400-3 for climb in visual conditions. **Rwy 33**, 800-2½ w/ min. climb of 390'/NM to 3900, or std. w/ min. climb of 522' per NM to 2800, or 2400-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 15,** climb heading 152° to 3900, or for climb in visual conditions, cross Bridgewater Air Park at or above 3400 before proceeding on course. **Rwy 33,** climb heading 347° to 5000, or for climb in visual conditions, cross Bridgewater Air Park at or above 3400 before proceeding on course.
NOTE: **Rwy 15,** vehicles on roadway 53' from DER, 14' right of centerline, 15' AGL/1180' MSL. Trees beginning 158' from DER, 259' right of centerline, up to 100' AGL/1279' MSL. Trees beginning 499' from DER, 628' left of centerline, up to 100' AGL/1279' MSL. Pole 908' from DER, 183' left of centerline, 35' AGL/1200' MSL. Trees beginning 3205' from DER, 1329' right of centerline, up to 100' AGL/1359' MSL. **Rwy 33,** trees beginning 318' from DER, 252' right of centerline, up to 100' AGL/1249' MSL. Trees beginning 470' from DER, 191' left of centerline, up to 100' AGL/1249' MSL.

BROOKNEAL, VA
BROOKNEAL/CAMPBELL COUNTY (0V4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13290 (FAA)
NOTE: **Rwy 6,** multiple trees beginning 48' from DER, 314' left of centerline, up to 100' AGL/626' MSL. Multiple trees beginning 31' from DER, 341' right of centerline, up to 100' AGL/673' MSL. Fence beginning 162' from DER, 379' right of centerline, up to 8' AGL/607' MSL. **Rwy 24,** multiple trees beginning 61' from DER, 8' left of centerline, up to 100' AGL/692' MSL. Multiple trees beginning 1938' from DER, 27' right of centerline, up to 100' AGL/677' MSL.

BUMPASS, VA
LAKE ANNA (7W4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11349 (FAA)
DEPARTURE PROCEDURE: **Rwy 8,** climb heading 085° to 800 before turning. **Rwy 26,** climb heading 265° to 800 before turning.
NOTE: **Rwy 8,** trees beginning 32' from DER, 114' right of centerline, up to 100' AGL/469' MSL. Buildings beginning 162' from DER, 152' left of centerline, up to 25' AGL/384' MSL. **Rwy 26,** trees beginning 31' from DER, 97' left and 119' right of centerline, up to 100' AGL/459' MSL.

CAMBRIDGE, MD
CAMBRIDGE-DORCHESTER (CGE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 80276 (FAA)
TAKEOFF MINIMUMS: **Rwy 34**, 300-1.

CAMP PEARY LNDG STRIP (KW94)
WILLIAMSBURG, VA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
08213
TAKEOFF OBSTACLES: **Rwy 5:** trees and multiple transmission lines 120' from DER, 184' left of centerline up to 95' AGL/126' MSL. Trees and multiple transmission lines 162' from DER, 257' right of centerline up to 100' AGL/132' MSL. **Rwy 23:** trees and multiple transmission lines 1891' from DER, 69' left of centerline up to 95' AGL/136' MSL. Multiple trees and transmission lines 537' from DER, 437' right of centerline up to 110' AGL/151' MSL.

CHARLOTTESVILLE, VA
CHARLOTTESVILLE-ALBEMARLE (CHO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 10 13234 (FAA)
TAKEOFF MINIMUMS: **Rwy 3,** std. w/min. climb of 342' per NM to 1500, or 1200-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 3,** climb on heading 030° to 1500 then climbing right turn direct GVE VORTAC before proceeding on course. For climb in visual conditions: cross Charlottesville-Albemarle airport at or above 1700 then proceed direct GVE VORTAC before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 21,** climb on heading 210° to 1400 then climbing left turn direct GVE VORTAC before proceeding on course.
NOTE: **Rwy 3,** trees beginning 183' from DER, left and right of centerline, up to 100' AGL/684' MSL. **Rwy 21,** vehicles on road, 32' from DER, 496' right of centerline, up to 17' AGL/667' MSL. Light support structures, 1178' from DER, 778' right of centerline, 62' AGL/670' MSL.

CHASE CITY, VA
CHASE CITY MUNI (CXE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
NOTE: **Rwy 18,** trees beginning 191' from DER, 116' left of centerline, up to 100' AGL/609' MSL. Multiple trees beginning 327' from DER, 133' right of centerline, up to 100' AGL/599' MSL. **Rwy 36,** trees beginning 164' from DER, 154' right of centerline, up to 100' AGL/649' MSL. Trees beginning 470' from DER, 124' left of centerline, up to 100' AGL/649' MSL.

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CHURCHVILLE, MD
HARFORD COUNTY (0W3)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10322 (FAA)
TAKEOFF MINIMUMS: **Rwys 1,14,19,32,** N/A-Environmental. **Rwy 10,** 300-2 or std. w/ min. climb of 210' per NM to 800' or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1500' prior to DER.
NOTE: **Rwy 10,** vehicles on roadway beginning 328' from DER, left and right of centerline, up to 17' AGL/416' MSL. Trees beginning 690' from DER, 271' left of centerline, up to 100' AGL/499' MSL. Trees beginning 2226' from DER, 454' right of centerline, up to 100' AGL/519' MSL. Rising terrain beginning 1.6 NM from DER, 2510' left of centerline, up to 639' MSL. **Rwy 28,** trees beginning 665' from DER, left and right of centerline, up to 100' AGL/519' MSL.

CLARKSVILLE, VA
LAKE COUNTRY RGNL (W63)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10098 (FAA)
NOTE: **Rwy 4,** trees beginning 5' from DER, 438' left of centerline, up to 100' AGL/539' MSL. Building 27' from DER, 94' right of centerline, 20' AGL/449' MSL. Vehicles on road beginning 200' from DER, from left to right of centerline, up to 15' AGL/444' MSL. Warehouse 313' from DER, on centerline, 75' AGL/495' MSL. Building 385' from DER, 257' right of centerline, 20' AGL/439' MSL. Trees beginning 444' from DER, 518' right of centerline, up to 100' AGL/509' MSL. **Rwy 22,** trees beginning 3' from DER from 452' left of centerline to 547' right of centerline, up to 100' AGL/422' MSL. Trees beginning 1624' from DER, from 632' left of centerline to 535' right of centerline, up to 100' AGL/485' MSL.

CLINTON, MD
WASHINGTON EXECUTIVE/HYDE FIELD (W32)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG -A 10126 (FAA)
NOTE: **Rwy 5,** Vehicle on road beginning 20' from DER, on centerline, up to 15' AGL/261' MSL. Antenna on tower beginning 2333' from DER, 556' right of centerline, 137' AGL/361' MSL. **Rwy 23,** Vehicle on road 23' from DER, 329' left of centerline, 15' AGL/260' MSL.

COLLEGE PARK, MD
COLLEGE PARK (CGS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3B 08157 (FAA)
TAKEOFF MINIMUMS: **Rwy 15,** 400-2¼ or std. w/ min. climb of 486' per NM to 600. **Rwy 33,** 400-2½ or std. w/ min. climb of 433' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 15,** climb heading 149° to 600 before proceeding on course. **Rwy 33,** climb heading 329° to 600 before proceeding on course.
NOTE: **Rwy 15,** trees beginning 2799' from DER, 570' left of centerline, up to 100' AGL/259' MSL. Antenna 1.1 NM from DER, 149' left of centerline, 167' AGL/270' MSL. **Rwy 33,** terrain beginning 1 NM from DER, 3700' right of centerline to 3700' left of centerline, up to 439' MSL. Building 3811' from DER, 467' right of centerline, 184' AGL/254' MSL. Tower 1.9 NM from DER, 1447' left of centerline, 255' AGL/405' MSL.

CREWE, VA
CREWE MUNI (W81)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11013 (FAA)
NOTE: **Rwy 15,** trees beginning 140' from DER, 464' left of centerline, up to 100' AGL/449' MSL. Trees beginning 406' from DER, 448' right of centerline, up to 100' AGL/509' MSL. **Rwy 33,** trees beginning 985' from DER, 587' left of centerline, up to 100' AGL/539' MSL. Trees beginning 520' from DER, 513' right of centerline, up to 100' AGL/529' MSL.

CRISFIELD, MD
CRISFIELD MUNI (W41)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03023 (FAA)
TAKEOFF MINIMUMS: **Rwys 6, 24,** NA-obstacles
DEPARTURE PROCEDURE: **Rwy 14,** climb via heading 142° to 900 before proceeding on course. **Rwy 32,** climb via heading 322° to 900 before proceeding on course.

CULPEPER, VA
CULPEPER RGNL (CJR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07354 (FAA)
DEPARTURE PROCEDURE: **Rwy 22,** climb heading 218° to 1000 before turning right.
NOTE: **Rwy 4,** tree 79' from DER, 418' left of centerline 86' AGL/337' MSL. Vehicle on road 207' from DER, 367' left of centerline, 15' AGL/330' MSL. Tree 3396' from DER, 514' right of centerline, 91' AGL/410' MSL. **Rwy 22,** tree 128' from DER, 332' left of centerline, 25' AGL/334' MSL. Multiple trees beginning 272' from DER, 179' right of centerline up to 22' AGL/341' MSL. Pole 1480' from DER, 68' left of centerline, 27' AGL/356' MSL.

CUMBERLAND, MD

GREATER CUMBERLAND RGNL (CBE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 11237 (FAA)

TAKEOFF MINIMUMS: **Rwys 11, 29,** N/A-Obstacles. **Rwy 5,** std. w/ min. climb of 320' per NM to 3200 or 2400-3 for climb in visual conditions. **Rwy 23,** 1200-3 w/ min. climb of 480' per NM to 2000 or std. w/min. climb of 929' per NM to 2400 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5,** climb heading 049° to 2300 before proceeding on course, or for climb in visual conditions cross Greater Cumberland Rgnl Airport at or above 3000 before proceeding on course. **Rwy 23,** climbing left turn on heading 140° to intercept 177° bearing from CBE NDB to 3000 before proceeding on course, or for climb in visual conditions cross Greater Cumberland Rgnl Airport at or above 3000 before proceeding on course.

NOTE: **Rwy 5,** trees beginning 146' from DER, left and right of centerline, up to 100' AGL/821' MSL. Obstruction light on antenna, 1.3 NM from DER, 2543' left of centerline, 210' AGL/1 076' MSL. **Rwy 23,** trees beginning 53' from DER, 497' left and right of centerline, up to 100' AGL/929' MSL. Obstruction light on DME 169' from DER, 269' left of centerline, 59' AGL/732' MSL. Tower 2029' from DER, 757' right of centerline, up to 99' AGL/959' MSL.

DANVILLE, VA

DANVILLE RGNL (DAN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 14205 (FAA)

TAKEOFF MINIMUMS: **Rwy 13,** 300-1¼ or std. w/ min. climb of 232' per NM to 800.

NOTE: **Rwy 2,** trees beginning 285' from DER, 455' right of centerline, up to 22' AGL/587' MSL. **Rwy 20,** tree 1328' from DER, 633' right of centerline, 30' AGL/569' MSL. **Rwy 13,** trees beginning 189' from DER, 90' right of centerline, up to 100' AGL/711' MSL. Building 1310' from DER, 194' right of centerline, 10' AGL/562' MSL. Pole 1496' from DER, 277' right of centerline, 29' AGL/590' MSL. Trees beginning at DER, 8' left of centerline, up to 74' AGL/613' MSL. **Rwy 31,** trees beginning 823' from DER, 6' left of centerline, up to 85' AGL/699' MSL. Pole 1185' from DER, 253' left of centerline, 30' AGL/608' MSL. Pole 2056' from DER, 253 left of centerline, 38' AGL/626' MSL. Sign 2196' from DER, 328' left of centerline, 36' AGL/628' MSL. Tower 1165' from DER, 416' left of centerline, 64' AGL/641' MSL. Building 568' from DER, 455' left of centerline, 37' AGL/612' MSL. Building 395' from DER, 573' left of centerline, 28' AGL/602' MSL. Trees beginning 1358' from DER. 24' right of centerline, up to 73' AGL/700' MSL. Pole 1540' from DER, 111' right of centerline, 44' AGL/613' MSL. Pole 1365' from DER, 131' right of centerline, 32' AGL/606' MSL. Pole 3042' from DER, 174' right of centerline, 75' AGL/681' MSL. Pole 2897' from DER, 284' right of centerline, 75' AGL/682' MSL. Building 2308' from DER, 584' right of centerline, 40' AGL/647' MSL.

DAVISON AAF (KDAA)

FORT BELVOIR, VA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
. . . . . .Rwy 32, 300-1*

* Or standard with minimum climb of 380/NM to 500.

TAKEOFF OBSTACLES: Rwy 32, 63' AGL tree 865' from DER, 82' right of centerline.

DOVER AFB (KDOV)

DOVER, DE 09155

TAKEOFF OBSTACLES: **Rwy 1,** possible aircraft/vehicles at DER hammerhead just left of rwy centerline, up to 65' AGL/91' MSL. **Rwy 19,** possible aircraft/vehicles at DER hammerhead just right of rwy centerline, up to 65' AGL/91' MSL. Rwy 32, multiple C-5s parked on ramp beginning 1535' thru 2780' from DER, 1010' left of centerline, up to 65' AGL/98' MSL. Bldg 3900' from DER, 760' left of centerline, 88' AGL/119' MSL. Possible taxiing aircraft/vehicles on taxi lane Alpha beginning 565' thru 2780' from DER, 750' left of centerline, up to 65' AGL/98' MSL. Possible large aircraft 2800' from DER, on taxiway Golf just left of centerline, up to 65' AGL/92' MSL.

DOVER/CHESWOLD, DE

DELAWARE AIRPARK (33N)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07186 (FAA)

NOTE: **Rwy 9,** multiple trees beginning 26' from DER, 50' left of centerline, up to 100' AGL/149' MSL. Pole line 1151' from DER, 36' right of centerline, 50' AGL/99' MSL. Multiple trees beginning 815' from DER, 505' right of centerline, up to 100' AGL/154' MSL. **Rwy 27,** multiple trees beginning 231' from DER, 85' left of centerline, up to 100' AGL/169' MSL. Multiple trees beginning 829' from DER, 43' right of centerline, up to 100' AGL/164' MSL.

DUBLIN, VA

NEW RIVER VALLEY (PSK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 09071 (FAA)

TAKEOFF MINIMUMS: **Rwy 24,** 200-1½ or std. w/ min. climb of 310' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 150° to intercept PSK VORTAC R-120 outbound to 5200 before proceeding on course.

Rwy 24, climb heading 238° to 4000 before proceeding on course.

NOTE: **Rwy 6,** tree 321' from DER, 493' left of centerline, 100' AGL/2112' MSL. Terrain 122' from DER, 460' left of centerline, up to 2105' MSL. **Rwy 24,** pole 1223' from DER, 671' right of centerline, 42' AGL/2161' MSL. Pole 669' from DER, 558' right of centerline, 18' AGL/2137' MSL. Pole 4851' from DER, 1170' left of centerline, 32' AGL/2231' MSL. Tower 5078' from DER 1017' left of centerline, 101' AGL/2300' MSL. Trees 226' from DER, 271' left of centerline, up to 103' AGL/2302' MSL. Terrain 68' from DER, 281' right of centerline, up to 2116' MSL.

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EASTON, MD

EASTON/NEWNAM FIELD (ESN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07242 (FAA)

TAKEOFF MINIMUMS: **Rwy 22,** 300-2 or std. w/ climb of 241' per NM to 500.

NOTE: **Rwy 4,** vehicles on roads beginning 199' from DER, 350' right of centerline, up to 15' AGL/102' MSL. Multiple poles beginning 434' from DER, 88' right of centerline, up to 31' AGL/100' MSL. Multiple trees beginning 1485' from DER, 46' right of centerline, up to 64' AGL/133' MSL. Tree 1509' from DER, 38' left of centerline, 47' AGL/116' MSL. **Rwy 15,** fence 2' from DER, 411' left of centerline, 8' AGL/57' MSL. Multiple poles beginning 721' from DER, 183' left of centerline, up to 64' AGL/123' MSL. Multiple poles beginning 828' from DER, 514' right of centerline, up to 26' AGL/85' MSL. Multiple trees beginning 862' from DER, 275' left of centerline, up to 89' AGL/148' MSL. Multiple trees beginning 1357' from DER, 238' right of centerline, up to 94' AGL/153' MSL. **Rwy 22,** tree 1251' from DER, 786' right of centerline, 56' AGL/95' MSL. Multiple trees beginning 1323' from DER, 759' left of centerline, up to 90' AGL/129' MSL. Tower 1.6 NM from DER, 2373' left of centerline, 276' AGL/291' MSL. **Rwy 33,** multiple trees 10' from DER, 19' right of centerline, up to 139' AGL/158' MSL. Vehicle on road 352' from DER, 405' right of centerline, 15' AGL/59' MSL. Pole 888' from DER, 409' left of centerline, 19' AGL/58' MSL. Multiple trees beginning 1153' from DER, 245' left of centerline, up to 99' AGL/118' MSL.

ELKTON, MD

CLAREMONT (58M)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-B 14317(FAA)

TAKEOFF MINIMUMS: **Rwy 31,** 300-1½ or std. w/ min. climb of 290' per NM to 400. NOTE: **Rwy 13,** cross DER at or above 27' AGL/89' MSL. **Rwy 31,** cross DER at or above 20' AGL/126' MSL.

DEPARTURE PROCEDURE: **Rwy 31,** climb heading 308° to 900 before turning left.

NOTE: **Rwy 13,** trees 185' from DER, 110' right of centerline, 50' AGL/113' MSL. Trees 325' from DER, 125' left of centerline, 75' AGL/138' MSL. **Rwy 31,** trees, 1350' from DER, on centerline, 115' AGL/221' MSL. Trees beginning 1050' from DER, 781' left to 781' right of centerline, up to 100' AGL/309' MSL.

EMPORIA, VA

EMPORIA-GREENSVILLE RGNL (EMV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 14093 (FAA)

NOTE: **Rwy 16,** trees beginning 188' from DER, 433' left of centerline, up to 42' AGL/141' MSL. **Rwy 34,** trees beginning 56' from DER, 489' right of centerline, up to 75' AGL/204' MSL. Trees beginning 2290' from DER, 250' right of centerline, up to 111' AGL/230' MSL. Trees beginning 2131' from DER, 106' left of centerline, up to 101' AGL/220' MSL. Trees beginning 1276' from DER, 459' left of centerline, up to 66' AGL/195' MSL. Trees beginning 1889' from DER, 9' right of centerline, up to 75' AGL/204' MSL. Trees beginning 1804' from DER, 136' left of centerline, up to 60' AGL/189' MSL. Trees beginning 1982' from DER, 83' left of centerline, up to 60' AGL/189' MSL. Trees beginning 571' from DER, 5' right of centerline, up to 23' AGL/152' MSL. Trees beginning 565' from DER, 57' left of centerline, up to 14' AGL/143' MSL. Trees beginning 3423' from DER, 256' left of centerline, up to 105' AGL/214' MSL. Trees beginning 3444' from DER, 140' left of centerline, up to 105' AGL/214' MSL. Trees beginning 3508' from DER, 44' right of centerline, up to 105' AGL/214' MSL.

FARMVILLE, VA

FARMVILLE RGNL (FVX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10154 (FAA)

NOTE: **Rwy 3,** trees beginning 64' from DER, 156' left of centerline, up to 77' AGL506' MSL. Trees beginning 149' from DER, 398' right of centerline, up to 93' AGL/502' MSL. **Rwy 21,** vehicle on road 97' from DER, 475' left of centerline, up to 15' AGL/422' MSL. Trees beginning 56' from DER, 21' right of centerline, up to 80' AGL/489' MSL. Trees beginning 553' from DER, 53' left of centerline, up to 55' AGL/491' MSL.

FELKER AAF (KFAF),

FORT EUSTIS, VA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

08297

Rwy 14, 32 standard.

TAKEOFF OBSTACLES: **Rwy 14:** Tree 3133' from DER, 167' left of centerline, 103' AGL/112' MSL. **Rwy 32:** Crane 2938' from DER, 941' left of centerline, 114' AGL/124' MSL. Trees beginning 2931' from DER, 186' left of centerline up to 74' AGL/85' MSL.

FOREST, VA

NEW LONDON (W90)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 18,** 300-1 or std. w/min. climb of 511' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 18,** climb heading 176° to 2200 before proceeding on course. **Rwy 36,** climbing right turn heading 066° and on LYH R-005 outbound to 3500 before proceeding on course.

NOTE: **Rwy 18,** trees beginning at DER, left and right of centerline, up to 100' AGL/ 919' MSL. **Rwy 36,** trees beginning at DER, left and right of centerline, up to 100' AGL/979' MSL. Vehicle on roadway, 19' from DER, 186' left of centerline, up to 15' AGL/ 894' MSL.

FORT MEADE (ODENTON), MD
TIPTON (FME)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 02052 (FAA)
NOTE: **Rwy 10,** cross DER at or above 17' AGL/167' MSL. Trees 1052' right of DER, 88' AGL/238' MSL.

FRANKLIN, VA
FRANKLIN MUNI-JOHN BEVERLY ROSE (FKN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 09071 (FAA)
NOTE: **Rwy 9,** trees beginning 1977' from DER, 349' left of centerline, up to 100' AGL/139' MSL. Trees beginning 1287' from DER, 236' right of centerline, up to 100' AGL/134' MSL. Vehicle on road 533' from DER, 604' right of centerline, 15' AGL/59' MSL. **Rwy 27,** trees beginning 100' from DER, 444' left of centerline, up to 100' AGL/134' MSL. Trees beginning 520' from DER, 520' right of centerline, up to 100' AGL/134' MSL. Vehicle on road 308' from DER, left to right of centerline, 15' AGL/44' MSL.

FREDERICK, MD
FREDERICK MUNI (FDK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11181 (FAA)
TAKEOFF MINIMUMS: **Rwy 5,** 400-2½ or std. w/min. climb of 260' per NM to 600. **Rwy 12,** 500-2¾ or std. w/min. climb of 385' per NM to 1000. **Rwy 30,** std. w/ min. climb of 290' per NM to 700 or 1500-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 5,** climbing left turn on FDK VOR R-010 to 1700 before proceeding on course. **Rwy 12,** climb heading 124° to 900 before turning. **Rwy 23,** climb heading 228° to 1200 before turning right. **Rwy 30,** climbing right turn on FDK VOR R-010 to 2400 or for climb in visual conditions, cross Frederick Muni Airport at or above 1700 before proceeding on course.
NOTE: **Rwy 5,** trees beginning 1556' from DER, left and right of centerline, up to 100' AGL/599' MSL. Elevators beginning 4842' from DER, 332' right of centerline, up to 76' AGL/436' MSL. **Rwy 12,** rod on building, 171' from DER, 528' right of centerline, 40' AGL/321' MSL. Trees beginning 233' from DER, left and right of centerline, up to 100' AGL/764' MSL. Pole 5358' from DER, 45' right of centerline, 80' AGL/519' MSL. **Rwy 23,** vehicles on road beginning 135' from DER, 377' right of centerline, up to 17' AGL/320' MSL. Rising terrain beginning 193' from DER, 471' left of centerline, up to 310' MSL. Buildings and poles beginning 935' from DER, 286' right of centerline, up to 61' AGL/362' MSL. Pole 1526' from DER, 626' left of centerline, 46' AGL/367' MSL. **Rwy 30,** trees beginning 1096' from DER, 104' right of centerline, up to 69' AGL/356' MSL. Tower 1 NM from DER, 1945' left of centerline, 160' AGL/460' MSL.

FREDERICKSBURG, VA
SHANNON (EZF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11069 (FAA)
TAKEOFF MINIMUMS: **Rwys 15,33,** NA- Environmental. **Rwy 6,** 300-2¼ or std. w/min. climb of 270' per NM to 500. **Rwy 24,** 400-3 or std. with a min. climb of 380' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6,** climb heading 055° to 700 before turning left. **Rwy 24,** climb heading 235° to 700 before turning right.
NOTE: **Rwy 6,** hanger abeam DER, 208' left of centerline, 25' AGL/119' MSL. Trees abeam DER. 154' right of centerline, up to 100' AGL/189' MSL. Power lines abeam DER, 193' right of centerline, up to 75' AGL/164' MSL. Buildings abeam DER, 237' right of centerline, up to 25' AGL/114' MSL. Vehicle on road 237' from DER, left and right of centerline, up to 15' AGL/1 04' MSL. Building 449' from DER, 234' left of centerline, 25' AGL/124' MSL. Building 382' from DER, 180' left of centerline, 25' AGL/104' MSL. Light poles beginning 439' from DER, 162' left of centerline, 75' AGL/154' MSL. Power lines beginning 315' from DER, 308' left of centerline, up to 75' AGL/154' MSL. Power lines beginning 613' from DER, left and right of centerline, up to 75' AGL/144' MSL. Building 668' from DER, 169' left of centerline, 25' AGL/104' MSL. Tower 4876' from DER, 1092' left of centerline, 210' AGL/250' MSL. **Rwy 24,** trees beginning abeam DER, left and right of centerline, up to 100' AGL/369' MSL. Train 10' from DER, left and right of centerline, 23' AGL/112' MSL. Rising terrain beginning 5161' from DER, left and right of centerline, up to 269' MSL. Power lines beginning 7248' from DER, left and right of centerline, up to 125' AGL/374' MSL.

FRIENDLY, MD
POTOMAC AIRFIELD (VKX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 11097 (FAA)
TAKEOFF MINIMUMS: **Rwy 6,** 500-2½ or std. w/ min. climb of 290' per NM to 700. **Rwy 24,** 300-1.
NOTE: **Rwy 6,** 50' AGL trees 300' left of DER, 75' AGL trees 320' right of DER. Tower 1.9 NM from DER, on centerline 301' AGL/550' MSL. **Rwy 24,** 80' AGL trees 200' right of DER. 75' AGL trees 200' left of DER. 30' AGL hanger 200' from DER, 190' right of centerline.

FRONT ROYAL, VA
FRONT ROYAL-WARREN COUNTY (FRR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10210 (FAA)
TAKEOFF MINIMUMS: **Rwy 10,** 300-1¼ or std. w/ min. climb of 415' per NM to 1100. **Rwy 28,** NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 10,** climbing left turn direct MRB VORTAC before proceeding on course.
NOTE: **Rwy 10,** vehicles on roadway beginning 221' from DER, left and right of centerline, up to 17' AGL/736' MSL. Power lines beginning 835' from DER, left and right of centerline, up to 79' AGL/828' MSL. Trees beginning 1060' from DER, 51' left of centerline, up to 100' AGL/779' MSL. Trees beginning 1660' from DER, 550' right of centerline, up to 100' AGL/939' MSL.

GAITHERSBURG, MD
MONTGOMERY COUNTY AIRPARK (GAI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 00279 (FAA)
NOTE: **Rwy 14,** 62' AGL trees 197' right of centerline. **Rwy 32,** 63' AGL trees 335' left of centerline.

GALAX-HILLSVILLE, VA
TWIN COUNTY (HLX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 12152 (FAA)
TAKEOFF MINIMUMS: **Rwy 1,** 300-1 or std. w/ min. climb of 310' per NM to 2900.
DEPARTURE PROCEDURE: **Rwy 19,** climb heading 187° to 3300 before turning left.
NOTE: **Rwy 1,** vehicles on roadway beginning 122' from DER, left and right of centerline, up to 15' AGL/2674' MSL. Tree 195' from DER, 432' right of centerline, 49' AGL/2669' MSL. Trees beginning 1215' from DER, left and right of centerline, up to 107' AGL/2699' MSL. Trees beginning 2098' from DER, left and right of centerline, up to 105' AGL/2768' MSL. Trees beginning 4071' from DER, 1192' left of centerline, up to 79' AGL/2799' MSL. **Rwy 19,** trees beginning 135' from DER, 455' left of centerline, up to 108' AGL/2748' MSL. Trees beginning 314' from DER, 434' right of centerline, up to 100' AGL/2760' MSL. Tree 925' from DER, 254' left of centerline, 80' AGL/2720' MSL. Trees beginning 1470' from DER, 248' right of centerline, up to 113' AGL/2753' MSL.

GEORGETOWN, DE
SUSSEX COUNTY (GED)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 14261 (FAA)
NOTE: **Rwy 4,** trees beginning 7' from DER, 453' left of centerline, up to 100' AGL/149' MSL. Trees beginning 205' from DER, 82' right of centerline, up to 100' AGL/149' MSL. Trees beginning 3566' from DER, 710' left of centerline, up to 100' AGL/180' MSL. **Rwy 10,** vehicles on roadway 355' from DER, 467' left of centerline, up to 15' AGL/64' MSL. Trees beginning 579' from DER, 543' left of centerline, up to 100' AGL/149' MSL. Trees beginning 810' from DER, 433' right of centerline, up to 100' AGL/149' MSL. **Rwy 22,** pole 343' from DER, 418' left of centerline, 32' AGL/76' MSL. Vehicles on roadway 476' from DER, 213' left of centerline, up to 15' AGL/64' MSL. Trees beginning 547' from DER, 131' left of centerline, up to 100' AGL/149' MSL. Trees beginning 590' from DER, 624' right of centerline, up to 78' AGL/123' MSL. Trees beginning 2586' from DER, 39' right of centerline, up to 99' AGL/143' MSL. **Rwy 28,** aircraft on runway 509' from DER, 5' right of centerline, up to 27' AGL/76' MSL. Trees beginning 1390' from DER, 713' right of centerline, up to 100' AGL/149' MSL. Trees beginning 1439' from DER, 87' left of centerline, up to 100' AGL/149' MSL. Water tower 4498' from DER, 219' right of centerline, 130' AGL/180' MSL.

GORDONSVILLE, VA
GORDONSVILLE MUNI (GVE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11349 (FAA)
TAKEOFF MINIMUMS: **Rwy 5,** 500-2½ or std. w/min. climb of 317'per NM to 1100. **Rwy 23,** 300-2½ or std. w/min. climb of 384'per NM to 700.
DEPARTURE PROCEDURE: **Rwy 5,** climb heading 048° to 1500 before proceeding on course. **Rwy 23,** climb heading 213° to 2000 before turning right.
NOTE: **Rwy 5,** trees beginning 341' from DER, 529' right of centerline, up to 100' AGL/699' MSL. Vehicles on roadway 738' from DER, 477' left of centerline, up to 17' AGL/476' MSL. Trees beginning 789' from DER, 507' left of centerline, up to 100' AGL/939' MSL. Railroad 1111' from DER, 255' right of centerline, up to 23' AGL/482' MSL. **Rwy 23,** trees beginning 300' from DER, 199' right of centerline, up to 100' AGL/739' MSL. Trees beginning 805' from DER, 423' left of centerline, up to 100' AGL/739' MSL. Rising terrain beginning 2.9 NM from DER, 2.5 NM right of centerline, up to 2039' MSL.

HAGERSTOWN, MD
HAGERSTOWN RGNL -RICHARD A. HENSON FIELD (HGR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 13290 (FAA)
DEPARTURE PROCEDURE: **Rwy 9,** climbing left turn to intercept HGR VOR R-084 to 2500 before proceeding on course. **Rwy 27,** climb on heading 272° to 2300 before turning right.
NOTE: **Rwy 2,** pole 22' from DER, 434' right of centerline, 20' AGL/719' MSL. Telephone pylon 98' from DER, 351' right of centerline, 30' AGL/729' MSL. Pole 100' from DER, 352' right of centerline, 31' AGL/730' MSL. Catenary 113' from DER, 515' right of centerline, 32' AGL/731' MSL. Antenna 190' from DER, 392' right of centerline, 38' AGL/737' MSL. Building 1115' from DER, 289' left of centerline, 10' AGL/749' MSL. Road 1215' from DER, 8' right of centerline, 3' AGL/742' MSL. Trees beginning 1295' from DER, left and right of centerline, up to 99' AGL/838' MSL. **Rwy 9,** MALSR 6' from DER, 5' left of centerline, 48' AGL/687' MSL. Tree 963' from DER, 754' left of centerline, 75' AGL/714' MSL. **Rwy 20,** light and poles beginning 334' from DER, left and right of centerline, up to 40' AGL/734' MSL. Tree 1504' from DER, 342' left of centerline, 36' AGL/735' MSL. Silo 1590' from DER, 93' left of centerline, 34' AGL/733' MSL. Tree 2051' from DER, 592' left of centerline, 100' AGL/759' MSL. Tree 2540' from DER, 722' left of centerline, 100' AGL/779' MSL. **Rwy 27,** trees beginning 668' from DER, 515' left of centerline, up to 80' AGL/719' MSL. Building 1895' from DER, 510' left of centerline, 73' AGL/713' MSL.

HOT SPRINGS, VA
INGALLS FIELD (HSP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 11013 (FAA)
DEPARTURE PROCEDURE: **Rwy 25,** climb heading 247° to 4400 before turning left.
NOTE: **Rwy 7,** tree 52' from DER, 395' left of centerline, 64' AGL/3784' MSL. **Rwy 25,** trees, building, and terrain beginning 172' from DER, 167' left of centerline, up to 60' AGL/3860' MSL. Obstacle light on pipe 376' from DER, 421' left of centerline, up to 28' AGL/3828' MSL.

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INDIAN HEAD, MD
MARYLAND (2W5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14205 (FAA)
NOTE: **Rwy 2,** trees beginning at DER, 208' right of centerline up to 100' AGL/279' MSL. Trees beginning 1103' from DER, 366' left of centerline up to 100' AGL/279' MSL. Trees beginning 1564' from DER, left and right of centerline up to 100' AGL/279' MSL. Building beginning 1255' from DER, 759' right of centerline, 25' AGL/204' MSL. **Rwy 20,** trees beginning 404' from DER, 25' right of centerline up to 100' AGL/259' MSL. Trees beginning at DER, 243' left of centerline up to 100' AGL/249' MSL. Trees beginning 1069' from DER, 316' right of centerline up to 100' AGL/279' MSL. Trees beginning 1388' from DER, 332' left of centerline up to 100' AGL/279' MSL. Building 1401' from DER, 744' right of centerline, 25' AGL/194' MSL.

JOINT BASE ANDREWS (KADW)
CAMP SPRINGS, MD . . . . . .
12152
TAKEOFF OBSTACLES: **Rwy 1R,** terrain 41' from DER, 500' left of centerline, 279' MSL. Terrain 46' from DER, 512' left of centerline, 279' MSL. Stadium light 3036' from DER, 1020' right of centerline, 80' AGL/361' MSL. **Rwy 19L,** terrain 0' inward of DER, 450' left of centerline, 253' MSL. Terrain 110' from DER, 529' left of centerline, 255' MSL. Terrain 270' from DER, 581' left of centerline, 260' MSL. **Rwy 19R,** tower 4629' from DER, 1664' right of centerline, 108' AGL/372' MSL. Tower 4713' from DER, 1727' right of centerline, 131' AGL/390' MSL.

JONESVILLE, VA
LEE COUNTY (0VG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06327 (FAA)
TAKEOFF MINIMUMS: **Rwy 7,** std. w/ min. climb of 467' per NM to 3800, or 1900-3 for climb in visual conditions. **Rwy 25,** std. w/ min. climb of 442' per NM to 3500, or 1900-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 7, 25,** for climb in visual conditions cross Lee County Airport at or above 3200 before proceeding on course.
NOTE: **Rwy 7,** terrain 116' from DER, 72' right of centerline, 1439' MSL. Terrain 691' from DER, 53' right of centerline, 1459' MSL. Terrain 267' from DER, 190' left of centerline, 1439' MSL. Terrain 479' from DER, 68' left of centerline, 1459' MSL.

KENBRIDGE, VA
LUNENBURG COUNTY (W31)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11013 (FAA)
NOTE: **Rwy 2,** trees beginning 219' from DER, left and right of centerline, up to 100' AGL/639' MSL. Vehicles on roadway, beginning 561' from DER, 519' right of centerline, up to 15' AGL/544'MSL. **Rwy 20,** trees at DER, left and right of centerline, up to 100' AGL/599' MSL.

LANGLEY AFB (KLFI),
HAMPTON, VA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13234
Rwy 8, 600-3*
* Or standard with minimum climb of 256 ft/NM to 800.
TAKE-OFF OBSTACLES: **Rwy 8,** Boat 2257' from DER, 777' left of centerline, 60' AGL/60' MSL. Boat 2497' from DER, 57' left of centerline, 60' AGL/ 60' MSL. Vehicle on road 1048' from DER, 703' right of centerline, 15' AGL/23' MSL. Boat 1807' from DER, 552' right of centerline, 60' AGL/60' MSL. Boat 2837' from DER, 643' right of centerline, 60' AGL/60' MSL. **Rwy 26,** Terrain 0' from DER, 369' left of centerline, 11' MSL. Tree 4052' from DER, 688' left of centerline,100' AGL/116' MSL. Tree 4842' from DER, 690' left of centerline, 100' AGL/ 116' MSL. Tree 4093' from DER, 82' left of centerline, 99' AGL/111' MSL. Tree 4155' from DER, 339' right of centerline, 100' AGL/113' MSL. Tree 4039' from DER, 620' right of centerline, 100' AGL/ 109' MSL. Tree 3807' from DER, 1181' right of centerline, 100' AGL/113' MSL. Building 1390' from DER, 825' left of centerline, 24' AGL/36' MSL.

LAUREL, DE
LAUREL (N06)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12096 (FAA)
TAKEOFF MINIMUMS: **Rwy 15,** 600-2¾ or std. w/min. climb of 286' per NM to 800.
DEPARTURE PROCEDURE: **Rwy 15,** climb heading 148° to 1200 before proceeding on course. **Rwy 33,** climb heading 328° to 1200 before preceding on course.
NOTE: **Rwy 15,** tower 2.4 NM from DER, 253' left of centerline, 500' AGL/542' MSL.

LAWRENCEVILLE, VA
LAWRENCEVILLE/BRUNSWICK MUNI (LVL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 04330 (FAA)
TAKEOFF MINIMUMS: **Rwys 6,24,** NA.
NOTE: **Rwy 18,** trees 1654' from DER, 772' left of centerline, 88' AGL/407' MSL. Trees 200' from DER, on centerline, 22' AGL/321' MSL. **Rwy 36,** trees 1487' from DER, 20' left of centerline, 88' AGL/420' MSL. Trees 113' from DER, 372' right of centerline, 88' AGL/420' MSL.

LEESBURG, VA
LEESBURG EXECUTIVE (JYO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 10266 (FAA)
DEPARTURE PROCEDURE: **Rwy 35,** climb heading 351° to 1200 before proceeding on course.
NOTE: **Rwy 17,** vehicle on roadway, 320' from DER, 565' left of centerline, up to 15' AGL/414' MSL. Building 167' from DER, 360' left of centerline, 22' AGL/401' MSL. Pole 958' from DER, 373' left of centerline, 32' AGL/421' MSL. Trees beginning 138' from DER, left and right of centerline, up to 100' AGL/464' MSL. **Rwy 35,** terrain 96' from DER, 453' left of centerline, 381' MSL. Tree 1078' from DER, 525' left of centerline, up to 100' AGL/413' MSL. Pole 638' from DER, 642' right of centerline, 49' AGL/428' MSL.

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LEONARDTOWN, MD

ST. MARY'S COUNTY RGNL (2W6)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07018 (FAA)

NOTE: **Rwy 11,** multiple trees beginning 88' from DER, 339' left of centerline, up to 80' AGL/205' MSL. Multiple trees beginning 61' from DER, 193' right of centerline up to 80' AGL/205' MSL. **Rwy 29,** multiple trees beginning 996' from DER, 227' left of centerline up to 79' AGL/221' MSL. Multiple trees beginning 596' from DER, 277' right of centerline up to 71' AGL/213' MSL. Multiple towers on buildings beginning 53' from DER, 400' right of centerline up to 26' AGL/168' MSL. Equipment on building 223' from DER, 449' right of centerline, 15' AGL/169' MSL. Tower 402' from DER, 399' right of centerline, 33' AGL/175' MSL. Fence 496' from DER, 241' right of centerline, 22' AGL/164' MSL.

LOUISA, VA

LOUISA COUNTY/FREEMAN FIELD (LKU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10210 (FAA)

NOTE: **Rwy 9,** trees beginning abeam DER, 316' right of centerline, up to 100' AGL/589' MSL. Trees beginning 765' from DER, 644' left of centerline, up to 95' AGL/545' MSL. Trees beginning 889' from DER, 150' right of centerline, up to 59' AGL/519' MSL. **Rwy 27,** trees beginning abeam DER, 350' right of centerline, up to 100' AGL/569' MSL. Trees beginning 212' from DER, 133' right of centerline, up to 100' AGL/569' MSL. Trees beginning 70' from DER, 513' left of centerline, up to 100' AGL/569' MSL. Building 148' from DER, 440' left of centerline, 14' AGL/484' MSL. Trees beginning 587' from DER, left and right of centerline, up to 100' AGL/549' MSL.

LURAY, VA

LURAY CAVERNS (LUA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 84019 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22**, 1000-3

DEPARTURE PROCEDURE: Climb visually so as to cross airport at or above 2000, then continue climb to 5000 via LUA 215° bearing before proceeding on course.

LYNCHBURG, VA

FALWELL (W24)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 07186 (FAA)

TAKEOFF MINIMUMS: **Rwy 10,** 1100-2½ for climb in visual conditions. **Rwy 28,** NA-obstacle.

DEPARTURE PROCEDURE: **Rwy 10,** for climb in visual conditions: cross Falwell Airport at or above 1900 before proceeding on course.

NOTE: **Rwy 10,** multiple trees 9' from DER, 87' right of centerline, up to 100' AGL/899' MSL. Multiple power lines 2896' from DER, 1192' right of centerline, up to 149' AGL/968' MSL.

LYNCHBURG RGNL/PRESTON GLENN FIELD (LYH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 08073 (FAA)

TAKEOFF MINIMUMS: **Rwy 17,** 300-2¼ or std. w/ min. climb of 232' per NM to 1500. **Rwy 35,** std. w/ min. climb of 350' per NM to 3000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 036° to 2200 before proceeding on course. **Rwy 17,** climb heading 169° to 1800 before turning right. **Rwy 22,** climb heading 216° to 1800 before turning right. **Rwy 35,** climb heading 349° to 3000 before turning left, or for climb in visual conditions: cross Lynchburg Rgnl/ Preston Glenn Field at or above 2500' MSL before proceeding on course.

NOTE: **Rwy 4,** trees beginning 2029' from DER, 62' right of centerline up to 81' AGL/999' MSL. Trees beginning 1422' from DER, 3' left of centerline up to 76' AGL/995' MSL. Poles beginning 427' from DER, 483' right of centerline up to 44' AGL/1044' MSL. Obstruction lights on fence beginning 2' from DER, 500' right of centerline up to 30' AGL/ 948' MSL. Antenna on building 395' from DER, 277' right of centerline 15' AGL/954' MSL. Light 606' from DER, 599' right of centerline, 18' AGL/982' MSL. Building 400' from DER, 345' right of centerline, 12' AGL/951' MSL. **Rwy 17,** trees beginning 284' from DER, 77' left of centerline up to 277' AGL/1195' MSL. Trees beginning 265' from DER, 178' right of centerline up to 57' AGL/969' MSL. Obstruction light on pole 9326' from DER 333' left of centerline, 270' AGL/1188 MSL. **Rwy 22,** trees beginning 274' from DER, 245' right of centerline up to 41' AGL/979' MSL. Trees beginning 2616' from DER, 206' left of centerline up to 41' AGL/ 979' MSL. Poles beginning 2872' from DER, 603' right of centerline up to 44' AGL/982' MSL. **Rwy 35,** trees beginning 2955' from DER, 140' right of centerline up to 96' AGL/ 1014' MSL. Trees beginning 722' from DER, 71' left of centerline up to 119' AGL/1037' MSL. Pole 36' from DER 98' left of centerline, 25' AGL/ 943' MSL.

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MARION/WYTHEVILLE, VA
MOUNTAIN EMPIRE (MKJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12208
TAKEOFF MINIMUMS: **Rwy 8,** 300-1¾. **Rwy 26,** std. w/ min. climb of 265' per NM to 3400 or 4600-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 8,** climb heading 079° to 4100 before proceeding on course. **Rwy 26,** climb heading 259° to 4400 before proceeding on course or for climb in visual conditions: cross Mountain Empire airport at or above 4600' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.
NOTE: **Rwy 8,** trees beginning 58' from DER, left and right of centerline, up to 100' AGL/2819' MSL. Vehicles beginning 225' from DER, left and right of centerline, up to 17' AGL/2540' MSL. Poles beginning 703' from DER, left and right of centerline, up to 123' AGL/2537' MSL. **Rwy 26,** trees and vehicles beginning 250' from DER, left and right of centerline, up to 100' AGL/3039' MSL.

MARTINSVILLE, VA
BLUE RIDGE (MTV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10042 (FAA)
TAKEOFF MINIMUMS: **Rwy 12,** std. with a min. climb of 249' per NM to 2100 or 1900-3 for climb in visual conditions. **Rwy 30**, std. with a min. climb of 321' per NM to 4300 or 1900-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 12,** climb heading 125° to 2200 before proceeding on course. For climb in visual conditions: cross Blue Ridge airport at or above 2700 MSL before proceeding on course. **Rwy 30,** for climb in visual conditions: cross Blue Ridge airport at or above 2700 MSL before proceeding on course.
NOTE: **Rwy 12,** trees beginning 316' from DER, 320' left of centerline, up to 47' AGL/956' MSL. Trees beginning 38' from DER, 380' right of centerline, 82' AGL/941' MSL. **Rwy 30,** trees beginning 82' from DER, 9' right of centerline, up to 100' AGL/1058' MSL. Vehicle on road 638' from DER, 418' right of centerline, 15' AGL/974' MSL. Obstruction light on DME 1031' from DER, 304' right of centerline, 18' AGL/977' MSL. Fence 947' from DER, 400' right of centerline, 12' AGL/971' MSL. Trees beginning 102' from DER, 94' left of centerline, up to 77' AGL/1047' MSL.

MELFA, VA
ACCOMACK COUNTY (MFV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 07298 (FAA)
NOTE: **Rwy 3,** multiple trees beginning 41' from DER, 221' right of centerline, up to 84' AGL/128' MSL. Truck on road 204' from DER, 231' left of centerline, 15' AGL/61' MSL. Multiple trees beginning 249' from DER, 14' left of centerline, up to 106' AGL/155' MSL. Truck on road 494' from DER, 228' left of centerline, 15' AGL/62' MSL. Rod on obstruction light tower 862' from DER, 402' left of centerline, 55' AGL/99' MSL. **Rwy 21,** multiple trees beginning 27' from DER, 395' right of centerline, up to 91' AGL/135' MSL. Multiple trees 504' from DER, 403' left of centerline, up to 110' AGL/144' MSL.

MIDDLETOWN, DE
SUMMIT (EVY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 00027 (FAA)
TAKEOFF MINIMUMS: **Rwy 35**, 300-1, or std. with a min. climb of 280' per NM to 400.

MITCHELLVILLE, MD
FREEWAY (W00)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12320 (FAA)
TAKEOFF MINIMUMS: **Rwy 18,** 300-1 or std.w/min. climb of 380' per NM to 400. **Rwy 36,** 300-2 or std. w/min. climb of 725' per NM to 600.
NOTE: **Rwy 18,** trees beginning 138' from DER, 30' left of centerline, up to 100' AGL/299' MSL. Trees beginning 220' from DER, 119' right of centerline, up to 100' AGL/279' MSL. Trees 3468' from DER, 1125' left of centerline, up to 100' AGL/319' MSL. Tower 3699' from DER, 1126' left of centerline, 125' AGL/305' MSL. **Rwy 36,** vehicles on road, trees, and transmission line towers beginning 107' from DER, 40' left of centerline, up to 100' AGL/299' MSL. Vehicles on road, trees, and transmission line towers beginning 112' from DER, 39' right of centerline, up to 100' AGL/319' MSL. Transmission line tower 2610' from DER, 3' left of centerline, 133' AGL/ 332' MSL.

MONETA, VA
SMITH MOUNTAIN LAKE (W91)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14261 (FAA)
TAKEOFF MINIMUMS: **Rwy 5,** 400-2¼ or std. w/min. climb of 565' per NM to 1200.
DEPARTURE PROCEDURE: **Rwy 5,** climb heading 054° to 2600 before proceeding on course. **Rwy 23,** climb heading 234° to 1900 before proceeding on course.
NOTE: **Rwy 5,** trees beginning abeam DER, 144' right of centerline, up to 100' AGL/1019' MSL. Vehicles on road beginning 3' from DER, left and right of centerline, up to 15' AGL/1034' MSL. Aircraft on taxiway, 132' left of centerline, up to 20' AGL/939' MSL. Trees beginning 303' from DER, 211' left of centerline, up to 100' AGL/1039' MSL. Trees beginning 3234' from DER, 44' right of centerline, up to 100' AGL/1119' MSL. Trees beginning 2954' from DER, 83' left of centerline, up to 100' AGL/1099' MSL. **Rwy 23,** trees beginning 13' from DER, 149' left of centerline, up to 100' AGL/979' MSL. Vehicles on road beginning 19' from DER, left and right of centerline, up to 15' AGL/894' MSL. Trees beginning 622' from DER, 316' right of centerline, up to 100' AGL/979' MSL.

NEWPORT NEWS, VA

NEWPORT NEWS/WILLIAMSBURG INTL (PHF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKEOFF MINIMUMS: **Rwy 20**, 300-1¼ or standard with a minimum climb of 255' per NM to 300.

NOTE: **Rwy 2,** bush 295' from DER, 291' right of centerline 22'AGL/62' MSL. Tree 937' from DER, 603' left of centerline 81' AGL/131' MSL. Pole 1221' from DER, 487' right of centerline 31' AGL/81' MSL. Tree 1275' from DER, 517' left of centerline 79' AGL/132' MSL. Multiple trees beginning 1554' from DER, 298' left of centerline up to 88' AGL/141' MSL. Tree 1686' from DER, 428' right of centerline 61' AGL/114' MSL. Tree 1849' from DER, 598' right of centerline 72' AGL/125' MSL. T-L tower 3351' from DER, 1008' left of centerline 109' AGL/161 MSL. **Rwy 7,** tree 371' from DER, 588' left of centerline 36' AGL/73' MSL. T-L tower 4120' from DER, 1324' right of centerline 93' AGL/116'MSL. T-L tower 5625' from DER, 1345' left of centerline 133' AGL/191' MSL. **Rwy 20,** bush 96' from DER, 293' left of centerline 22' AGL/52' MSL. Stack 5977' from DER, 598' left of centerline 186' AGL/227' MSL. **Rwy 25,** tree 694' from DER, 549' right of centerline 42' AGL/65' MSL. Tree 1020' from DER, 703' right of centerline 23' AGL/97' MSL. Tree 1622' from DER, 529' left of centerline 59' AGL/79' MSL. Tree 2654' from DER, 335' right of centerline 86' AGL/106' MSL. Tree 3435 from DER, 1125' right of centerline 116' AGL/139' MSL.

NEW MARKET, VA

NEW MARKET (8W2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** 1100-3 w/ min. climb of 376' per NM to 3700 or 2600-3 for climb in visual conditions. **Rwy 24,** 1100-3 w/ min. climb of 290' per NM to 3700 or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6,** climb heading 048° to 3700 before proceeding on course or for climb in visual conditions: cross New Market airport at or above 3400 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.
Rwy 24, climb heading 243° to 3700 before proceeding on course or for climb in visual conditions: cross New Market airport at or above 3400 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 6,** train beginning 2' from DER, 396' left of centerline, up to 23' AGL/1002' MSL. Vehicles on road beginning 57' from DER, left and right of centerline, up to 15' AGL/994' MSL. Trees beginning 754' from DER, 522' left of centerline, up to 100' AGL/1279' MSL. **Rwy 24,** train beginning 11' from DER, 404' right of centerline, up to 23' AGL/1002' MSL. Trees beginning 564' from DER, 257' right of centerline, up to 100' AGL/1319' MSL.

NORFOLK, VA

CHESAPEAKE RGNL (CPK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 12040 (FAA)

NOTE: **Rwy 5,** trees beginning 143' from DER, left and right of centerline, up to 100' AGL/108' MSL. **Rwy 23,** trees beginning 153' from DER, left and right of centerline, up to 105' AGL/122' MSL.

HAMPTON ROADS EXECUTIVE (PVG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 14261 (FAA)

TAKEOFF MINIMUMS: **Rwy 10,** std. w/ min. climb of 210' per NM to 600, or alternatively w/std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1500' prior to DER or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2,** climb heading 019° to 1600 before turning west. **Rwy 10,** climb heading 102° to 1000 before proceeding on course, or for climb in visual conditions, cross Hampton Roads Executive Airport at or above 1600 before proceeding on course. When executing VCOA, notify ATC prior to departure.
Rwy 20, climb heading 199° to 900 before turning North.
Rwy 28, climb heading 282° to 1500 before turning North.

NOTE: **Rwy 2,** vehicles on roadway beginning 213' from DER, left and right of centerline, up to 15' AGL/39' MSL. trees beginning 663' from DER, left and right of centerline, up to 100' AGL/124' MSL. **Rwy 10,** aircraft on taxiway beginning 9' from DER, 390' right of centerline, up to 26' AGL/49' MSL. Bushes beginning 30' from DER, 156' right of centerline, up to 5' AGL/26' MSL. Bushes beginning 96' from DER, 486' left of centerline, up to 12' AGL/33' MSL. Trees beginning 2086' from DER, 19' left of centerline, up to 103' AGL/124' MSL. Trees beginning 2103' from DER, 13' right of centerline, up to 113' AGL/134' MSL. **Rwy 20,** aircraft on taxiway and buildings beginning 11' from DER, 144' right of centerline, up to 40' AGL/50' MSL. Vehicles on roadway beginning 97' from DER, 14' left of centerline, up to 23' AGL/47' MSL. Trains on railroad tracks and trees beginning 333' from DER, 571' left of centerline, up to 100' AGL/124' MSL. Trains on railroad tracks and trees beginning 796' from DER, 90' right of centerline, up to 100' AGL/124' MSL. **Rwy 28,** trees beginning 2267' from DER, 1071' left of centerline, up to 100' AGL/121' MSL. Trees beginning 3793' from DER, 408' left of centerline, up to 113' AGL/134' MSL.

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NORFOLK, VA (CON'T)
NORFOLK INTL (ORF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14149 (FAA)

NOTES: **Rwy 5,** multiple trees beginning 1521' from DER, 628' right of centerline, up to 85' AGL/95' MSL. Towers beginning 2974' from DER, 773' right of centerline, up to 127' AGL/131' MSL. Mobile crane 4334' from DER, 1106' right of centerline, 162' AGL/163' MSL. Sign 82' from DER, 301' left of centerline, 11' AGL/19' MSL. Pole 2696' from DER, 1063' left of centerline, 87' AGL/91' MSL. Multiple towers beginning 2938' from DER, 927' left of centerline, up to 145' AGL/146' MSL. **Rwy 14,** vehicle on road 2' from DER, 450' right of centerline, up to 10' AGL/36' MSL. Multiple trees beginning 1193' from DER, 117' right of centerline, up to 82' AGL/97' MSL. Multiple trees beginning 1755' from DER, 413' right of centerline, up to 85' AGL/100' MSL. Numerous trees beginning 2109' from DER, 150' right of centerline, up to 121' AGL/136' MSL. Tree 3323' from DER, 308' right of centerline, 101' AGL/121' MSL. Poles beginning 1307' from DER, 255' right of centerline, up to 43' AGL/62' MSL. Numerous trees beginning 1230' from DER, 40' left of centerline, up to 84' AGL/104' MSL. Pole 1567' from DER, 95' left of centerline, 42' AGL/62' MSL. Multiple trees beginning 2347' from DER, 57' left of centerline, up to 83' AGL/103' MSL. Multiple trees beginning 3086' from DER, 235' left of centerline, up to 101' AGL/121' MSL. **Rwy 23,** trees beginning 324' from DER, 484' right of centerline, up to 28' AGL/43' MSL. Trees beginning 1989' from DER, 26' right of centerline, up to 61' AGL/76' MSL. Pole 1012' from DER, 650' right of centerline, 62' AGL/73' MSL. Pole 2166' from DER, 840' right of centerline, 41' AGL/74' MSL. Vehicle on road 128' from DER, 508' left of centerline, 10' AGL/31' MSL. Multiple trees beginning 619' from DER, 560' left of centerline, up to 66' AGL/76' MSL. Pole 1434' from DER, 739' left of centerline, 57' AGL/71' MSL. Multiple trees beginning 1801' from DER, 46' left of centerline, up to 65' AGL/85' MSL. Trees beginning 2797' from DER, 448' left of centerline, up to 103' AGL/113' MSL. **Rwy 32,** multiple trees beginning 17' from DER, 459' right of centerline, up to 92' AGL/112' MSL. Vehicles on road beginning 207' from DER, 231' right of centerline, up to 15' AGL/29' MSL. Tree 317' from DER, 183' right of centerline, 24' AGL/31' MSL. Trees 775' from DER, 54' right of centerline, up to 61' AGL/71' MSL. Multiple trees beginning 1085' from DER, 698' right of centerline, up to 88' AGL/98' MSL. Multiple trees beginning 1696' from DER, 1' right of centerline, up to 85' AGL/95' MSL. Numerous trees beginning 2128' from DER, 1' right of centerline, up to 103' AGL/113' MSL. Multiple trees beginning 3955' from DER, 936' right of centerline, up to 124' AGL/134' MSL. Vehicles on road beginning 265' from DER, on centerline, up to 15' AGL/26' MSL. Tree 9' from DER, 414' left of centerline, 25' AGL/35' MSL. Tree 166' from DER, 264' left of centerline, 17' AGL/27' MSL. Towers beginning 201' from DER, 86' left of centerline, 12' AGL/27' MSL. Vehicle on road 217' from DER, 81' left of centerline, 10' AGL/27' MSL. Trees beginning 677' from DER, 568' left of centerline, up to 60' AGL/70' MSL. Trees beginning 764' from DER, 109' left of centerline, up to 40' AGL/47' MSL. Poles beginning 846' from DER, 223' left of centerline, up to 41' AGL/51' MSL. Multiple trees beginning 1110' from DER, 181' left of centerline, up to 49' AGL/59' MSL. Tree 1359' from DER, 817' left of centerline, 93' AGL/103' MSL. Multiple trees located 1566' from DER, 7' left of centerline, up to 85' AGL/95' MSL. Trees beginning 3528' from DER, 186' left of centerline, up to 106' AGL/113' MSL.

NORFOLK NS (CHAMBERS FIELD) (KNGU)
NORFOLK, VA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1, 13178

TAKE-OFF OBSTACLES: **Rwy 10:** Trees with a maximum height of 100' within 1500' of departure end of rwy. Cross departure end of rwy at or above 35' AGL/48' MSL. **Rwy 28:** Four stadium lights 2327' to 2588' from DER, 742' to 849' left of centerline, 74' AGL/73' MSL.

OAKLAND, MD
GARRETT COUNTY (2G4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08101 (FAA)

NOTE: **Rwy 9,** Multiple trees beginning 75' from DER, 94' left of centerline, up to 100' AGL/2939' MSL. Multiple trees beginning 76' from DER, 47' right of centerline, up to 100' AGL/2939' MSL. **Rwy 27,** Multiple trees beginning 15' from DER, 334' left of centerline, up to 100' AGL/3019' MSL. Multiple trees beginning 19' from DER, 107' right of centerline, up to 100' AGL/3019' MSL.

OCEAN CITY, MD
OCEAN CITY MUNI (OXB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 14261 (FAA)

TAKEOFF MINIMUMS: **Rwy 2,** 300-1½ or std. w/min. climb of 262' per NM to 300. **Rwy 32,** 400-2 or std. w/ min. climb of 280' per NM to 500.

NOTE: **Rwy 2,** trees beginning 158' from DER, 499' right of centerline, up to 78' AGL/88' MSL. Tower 5556' from DER, 1981' right of centerline, 146' AGL/157' MSL. Trees beginning 679' from DER, 523' left of centerline, up to 64' AGL/74' MSL. Pole 1535' from DER, 79' left of centerline, 42' AGL/54' MSL. Tank 4708' from DER, 1600' right of centerline, 160' AGL/169' MSL. Trees beginning 1141' from DER, left and right of centerline, up to 104' AGL/114' MSL. Pole 1126' from DER, 522' right of centerline, 31' AGL/40' MSL. **Rwy 14,** tree 94' from DER, 182' right of centerline, 20' AGL/29' MSL. **Rwy 20,** trees beginning 8' from DER, 154' right of centerline, up to 32' AGL/42' MSL. Trees beginning 185' from DER, 162' left of centerline, up to 48' AGL/58' MSL. Trees beginning 959' from DER, 16' right of centerline, up to 62' AGL/72' MSL. **Rwy 32,** bushes beginning 7' from DER, 250' left of centerline, up to 13' AGL/23' MSL. Poles beginning 626' from DER, 493' left of centerline, up to 47' AGL/58' MSL. Trees beginning 858' from DER, 18' right of centerline, up to 91' AGL/101' MSL. Trees beginning 303' from DER, 71' left of centerline, up to 104' AGL/114' MSL. Tower 1.7 NM from DER, 929' right of centerline, 347' AGL/357' MSL.

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OCEANA NAS (APOLLO SOUCEK FIELD) (KNTU)

VIRGINIA BEACH, VA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
09351

TAKEOFF OBSTACLES: **Rwy 5L,** Trees 115' MSL, 3706' from DER, 97' right of centerline. **Rwy 5R,** Trees 115' MSL, 3706' from DER, 603' left of centerline. **Rwy 14L,** Trees 105' MSL, 2792' from DER, 7' left of centerline. **Rwy 14R,** Trees 105' MSL, 2792' from DER, 708' left of centerline.

ORANGE, VA

ORANGE COUNTY (OMH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14149 (FAA).

DEPARTURE PROCEDURE: **Rwy 8,** climb heading 075° to 1500 before turning left. **Rwy 26,** climb heading 255° to 2000 before turning.

NOTE: **Rwy 8,** terrain, trees and poles beginning 103' from DER, 361' right of centerline, up to 126' AGL/576' MSL. Terrain, trees and poles beginning 404' from DER, 600' left of centerline, up to 101' AGL/581' MSL. **Rwy 26,** terrain, trees, and poles beginning 14' from DER, 429' right of centerline, up to 101' AGL/559' MSL. Vehicle on road 378' from DER, 406' right of centerline, 17' AGL/463' MSL. Terrain, trees, poles, building and catenary beginning 101' from DER, 888' left of centerline, up to 102' AGL/522' MSL.

PATUXENT RIVER NAS (TRAPNELL FIELD),(KNHK)

PATUXENT RIVER, MD
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
09267

Rwy 6, Obstacle identification surface begins 15' above DER. **Rwy 14,** Obstacle identification surface begins 35' above DER. **Rwy 20,** Obstacle identification surface begins 20' above DER. **Rwy 24,** Obstacle identification surface begins 15' above DER.

TAKEOFF OBSTACLES: **Rwy 6,** Pole 63' AGL/83' MSL, 1967' from DER, 981' left of centerline. **Rwy 14,** Trees 42' AGL/57' MSL, 190' from DER, 223' left of centerline. Two lane road crossing rwy thld max ht 17' AGL/33' MSL, 193' from DER. Pole 34' AGL/50' MSL, 315' from DER, 198' left of centerline. Trees 43' AGL/59' MSL, 520' from DER, 637' right of centerline. **Rwy 20,** Trees 44' AGL/81' MSL, 1555' from DER, 845' right of centerline. Trees 56' AGL/ 93' MSL, 2057' from DER, 778' right of centerline. Trees 67' AGL/104' MSL, 2077' from DER, 818' right of centerline. Trees 93' AGL/130' MSL, 3029' from DER, 32' left of centerline. **Rwy 24,**
43' AGL/81' MSL, 1682' from DER, 582' left of centerline. Trees 57' AGL/93' MSL, 2015' from DER, 965' left of centerline. Trees 66' AGL/104' MSL, 2056' from DER, 948' left of centerline.

PETERSBURG, VA

DINWIDDIE COUNTY (PTB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07354 (FAA)

TAKEOFF MINIMUMS: **Rwys 32, 14,** NA-obstacles.

NOTE: **Rwy 5,** numerous trees beginning 911' from DER, 551' left of centerline, up to 65' AGL/254' MSL. Fence 161' from DER, 472' right of centerline, 7' AGL/196' MSL. Tree 1031' from DER, 690' right of centerline, 57' AGL/256' MSL. **Rwy 23,** numerous trees beginning 2615' from DER, 69' right of centerline, up to 80' AGL/289' MSL. Fence 10' from DER, 476' left of centerline, 10' AGL/199' MSL. Numerous trees beginning 819' from DER, 528' left of centerline, up to 72' AGL/281' MSL.

PHILLIPS AAF (KAPG)

ABERDEEN PROVING GROUND, MD
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
07270

TAKEOFF OBSTACLES: **Rwy 4**, vehicle on road 1059' from DER, on centerline, 10' AGL/86' MSL. Tree 1126' from DER, 118' left of centerline, 29' AGL/88' MSL. **Rwy 22**, vehicle on road 234' from DER, 27' right of centerline, 10' AGL/49' MSL. Multiple trees beginning 398' from DER, 311' right of centerline, up to 50' AGL/89' MSL. Tree 1094'
from DER, 49' left of centerline, 43' AGL/62' MSL.

QUANTICO MCAF (TURNER FIELD) (KNYG)

QUANTICO, VA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
11069

Rwy 2, Diverse departures authorized only from 090° CW to 204°, 400-2½*
Rwy 20, 300-1**
* Or standard with minimum civil climb of 440 ft/NM to 600, minimum military climb of 410 ft/NM to 500.
** Or standard with minimum civil climb of 400 ft/NM to 600, minimums military climb of 270 ft/NM to 500.

TAKEOFF OBSTACLES: **Rwy 2,** Multiple trees on rising terrain 100' AGL/296' MSL, 4075' from DER, 803' left of centerline. Multiple trees on rising terrain 100' AGL/197' MSL, 5763' from DER, 106' left of centerline. Multiple trees 100' AGL/240' MSL, 5763' from DER, 509' right of centerline. Smokestack 100' MSL, 2310' from DER, 401' left of centerline. Multiple smokestacks up to 397' MSL, 2 NM from DER, 4175' right of centerline. **Rwy 20,** Terrain 27' MSL, starting 347' from DER, 192' right of centerline. Multiple trees on rising terrain 25' AGL/175' MSL, 5364' from DER, 1900' right of centerline. Multiple trees on rising terrain 25' AGL/195' MSL, 5590' from DER, 1980' right of centerline. Multiple trees on rising terrain 25' AGL/205' MSL, 5880' from DER, 1855' right of centerline.

QUINTON, VA

NEW KENT COUNTY (W96)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13262(FAA)

NOTE: **Rwy 11,** trees beginning abeam DER, 189' right of centerline, up to 100' AGL/199' MSL. Trees beginning abeam DER, 113' left of centerline, up to 100' AGL/209' MSL. Trees beginning 257' from DER, left and right of centerline, up to 100' AGL/199' MSL. **Rwy 29,** trees beginning abeam DER, 183' right of centerline, up to 100' AGL/189' MSL. Trees beginning abeam DER, 209' left of centerline, up to 100' AGL/219' MSL. Fence 246' from DER, 8' AGL/127' MSL. Trees beginning 247' from DER, 153' right of centerline up to 100' AGL/199' MSL. Vehicles on roadway 269' from DER, left and right of centerline, 15' AGL/134' MSL. Trees beginning 396' from DER, 5' right of centerline, up to 100' AGL/239' MSL.

RICHLANDS, VA

TAZEWELL COUNTY (JFZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 7,** std. w/min. climb of 630' per NM to 3200 or 300-1½ w/ min. climb of 235' per NM to 5000 or 2000-2½ for climb in visual conditions. **Rwy 25,** std. w/min. climb of 713' per NM to 2900 or 300-1 w/ min. climb of 220' per NM to 5000 or 2000-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7,** climb heading 072° to 5000 before proceeding on course, or for climb in visual conditions: cross Tazewell County airport at or above 4500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 25,** climb heading 252° to 5000 before proceeding on course or for climb in visual conditions: cross Tazewell County airport at or above 4500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 7,** rising terrain beginning at DER, left and right of centerline, up to 2773' MSL. Vehicles on road beginning at DER, 425' right of centerline, up to 15' AGL/2682' MSL. Trees beginning at DER, left and right of centerline, up to 100' AGL/2939' MSL. **Rwy 25,** trees beginning 116' from DER, left and right of centerline, up to 100' AGL/2828' MSL. DME facility 176' from DER, 256' left of centerline, 28' AGL/2668' MSL. Fence beginning 566' from DER, 363' left of centerline, up to 10' AGL/2734' MSL. Rising terrain beginning 620' from DER, 361' left of centerline, up to 2669' MSL.

RICHMOND, VA

RICHMOND EXECUTIVE-CHESTERFIELD COUNTY (FCI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 13122 (FAA)

DEPARTURE PROCEDURE: **Rwy 33**, climb heading 316° to 2000 before turning right.

NOTE: **Rwy 15,** vehicles on roadway and trees beginning abeam DER, 260' right of centerline, up to 59' AGL/260' MSL. Trees beginning 99' from DER, 266' left of centerline, up to 57' AGL/258' MSL. **Rwy 33,** rising terrain, trees and pole beginning 62' from DER, 29' right of centerline, up to 37' AGL/278' MSL. Trees beginning 1844' from DER, 660' left of centerline, up to 95' AGL/306' MSL.

RICHMOND INTL (RIC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10098 (FAA)

TAKEOFF MINIMUMS: **Rwy 2,** 200-1¼ or std. w/ min. climb of 230' per NM to 400, or alternatively, with standard TAKEOFF minimums and a normal 200'/NM climb gradient, TAKEOFF must occur no later than 1600' prior to DER.

NOTE: **Rwy 2,** aircraft on surface beginning 3' from DER, 202' right of centerline, up to 65' AGL/232' MSL. Trees and bushes beginning 104' from DER, 223' left of centerline, up to 100' AGL/251' MSL. Trees beginning 2918' from DER, 367' right of centerline, up to 100' AGL/260' MSL. **Rwy 7,** trees beginning 1208' from DER, 798' right of centerline, up to 100' AGL/259' MSL. Trees beginning 1347' from DER, 283' left of centerline, up to 100' AGL/259' MSL. **Rwy 20,** hangar 817' from DER, 665' right of centerline, 43' AGL/212' MSL. Trees beginning 2307' from DER, 1065' left of centerline, up to 100' AGL/235' MSL. Trees beginning 2645' from DER 759' right of centerline, up to 100' AGL/255' MSL. Pole 3226' from DER, 424' right of centerline, 79' AGL/248' MSL. **Rwy 25,** vehicles on road beginning 390' from DER, on centerline, up to 15' AGL/184' MSL. Train on railroad beginning 545' from DER, on centerline, up to 23' AGL/192' MSL. Tower 799' from DER, 562' left of centerline, 16' AGL/185' MSL. Trees beginning 2414' from DER, 285' right of centerline, up to 100' AGL/279' MSL. Multiple poles beginning 3056' from DER, 565' left of centerline, up to 83' AGL/252' MSL. Trees beginning 3176' from DER, 357' left of centerline, up to 100' AGL/269' MSL. **Rwy 34,** aircraft on surface beginning 12' from DER, 192' left of centerline, up to 65' AGL/230' MSL. Hangar and light pole beginning 1103' from DER, 732' left of centerline, up to 41' AGL/200' MSL. Trees beginning 2202' from DER, 1052' right of centerline, up to 100' AGL/232' MSL. Trees beginning 2689' from DER, 998' left of centerline, up to 100' AGL/237' MSL.

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RICHMOND/ASHLAND, VA

HANOVER COUNTY MUNI (OFP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09239 (FAA)

NOTE: **Rwy 16,** trees beginning 48' from DER, 479' left of centerline, up to 101' AGL/291' MSL. Poles beginning 1077' from DER, 36' left of centerline, up to 36' AGL/236' MSL. Pole 1120' from DER 166' right of centerline 30' AGL/230' MSL. Trees beginning 1307' from DER, 26' left of centerline, up to 108' AGL/298' MSL. Trees beginning 1431' from DER, 319' right of centerline, up to 104' AGL/294' MSL. **Rwy 34,** road and trees beginning 149' from DER, 345' right of centerline, up to 47' AGL/247' MSL. Road and trees beginning 410' from DER, 386' left of centerline, up to 103' AGL/293' MSL. Poles beginning 660' from DER, on centerline, up to 39' AGL/239' MSL. Trees beginning 1402' from DER, 445' right of centerline, up to 100' AGL/290' MSL. Trees beginning 2714' from DER, 487' right of centerline, up to 104' AGL/304' MSL.

RIDGELY, MD

RIDGELY AIRPARK (RJD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NOTE: **Rwy 12,** multiple trees beginning 592' from DER, 6' left of centerline, up to 100' AGL/160' MSL. Multiple trees beginning 239' from DER, 338' right of centerline, up to 100' AGL/160' MSL.

ROANOKE, VA

ROANOKE RGNL/ WOODRUM FIELD (ROA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 10 13122 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** std. w/ min. climb of 585' per NM to 3000, or 2500-3 for climb in visual conditions. **Rwy 16,** std. w/ min. climb of 420' per NM to 3000, or 2500-3 for climb in visual conditions. **Rwy 24,** std. w/ min. climb of 242' per NM to 2800, or 2500-3 for climb in visual conditions. **Rwy 34,** NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 6,** climb heading 058° to 3000 before proceeding on course. **Rwy 16,** climb heading 156° 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. **Rwys 6, 16, 24,** for climb in visual conditions, cross Roanoke Rgnl /Woodrum field at or above 3500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

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. **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. **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.

SALISBURY, MD

SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10322 (FAA)

NOTE: **Rwy 5,** terrain and trees beginning 21' from DER, right and left of centerline, up to 100' AGL/148' MSL. Poles beginning 1213' from DER, 664' right of centerline, up to 36' AGL/85' MSL. Antenna on building 1388' from DER, 49' left of centerline, 36' AGL/86' MSL. **Rwy 14,** trees beginning 1539' from DER, right and left of centerline, up to 100' AGL/153' MSL. **Rwy 23,** trees beginning 22' from DER, right and left of centerline, up to 100' AGL/163' MSL. Vehicles on road beginning 220' from DER, right and left of centerline, up to 17' AGL/60' MSL. Antenna on building 1141' from DER, 304' right of centerline, 47' AGL/83' MSL. **Rwy 32,** trees beginning 14' from DER, right and left of centerline, up to 100' AGL/134' MSL. Hangars beginning 121' from DER, 510' left of centerline, up to 23' AGL/72' MSL. Trailer 396' from DER, 275' left of centerline, 10' AGL/59' MSL.

SALUDA, VA

HUMMEL FIELD (W75)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 01305 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 1000 before turning on course.

NOTE: **Rwy 1,** 23' AGL tree left of DER, 65' AGL tree 663' from DER, 129' left of centerline. **Rwy 19,** 26' AGL tree 237' from DER, 116' right of centerline.

SOUTH BOSTON, VA

WILLIAM M. TUCK (W78)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 12012 (FAA)

TAKEOFF MINIMUMS: **Rwy 1,** 300-1. **Rwys 6, 24,** NA.

NOTE: **Rwy 1,** tower 334' from DER, 283' left of centerline, 72' AGL/502' MSL.

SOUTH HILL, VA

MECKLENBURG-BRUNSWICK RGNL (AVC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10210 (FAA)

NOTE: **Rwy 1,** train on tracks 118' from DER, 514' left of centerline, 23' AGL/452' MSL. Trees beginning 181' from DER, 408' left of centerline, up to 80' AGL/500' MSL. Trees beginning 1858' from DER, 600' right of centerline, up to 71' AGL/500' MSL. **Rwy 19,** trees beginning 191' from DER, 13' left of centerline, up to 77' AGL/457' MSL. Trees beginning 1176' from DER, 57' right of centerline, up to 76' AGL/500' MSL.

STAFFORD, VA
STAFFORD RGNL (RMN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13234 (FAA)
TAKEOFF MINIMUMS: **Rwy 33,** 300-2 or std. w/min. climb of 304' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 15,** climbing left turn to 2000 on BRV R-310 direct BRV VORTAC before proceeding on course. **Rwy 33,** climbing left turn to 2000 on BRV R-306 direct BRV VORTAC before proceeding on course.
NOTE: **Rwy 15,** approach light, 8' from DER, 9' right of centerline, 2' AGL/174' MSL. Multiple trees beginning 183' from DER, 598' left of centerline, up to 100' AGL/323' MSL. Multiple trees beginning 2197' from DER, 912' right of centerline, up to 100' AGL/274' MSL. **Rwy 33,** REIL, 40' from DER, 123' right of centerline, 2' AGL/214' MSL. REIL, 40' from DER, 123' left of centerline, 2' AGL/214' MSL. Tower, 9344' from DER, 420' left of centerline, 168' AGL/529' MSL. Tower, 9312' from DER, 357' left of centerline, 151' AGL/467' MSL. Multiple trees, beginning 978' from DER, 10' left of centerline, up to 100' AGL/245' MSL. Multiple trees, beginning 234' from DER, 100' right of centerline, up to 100' AGL/384' MSL.

STAUNTON-WAYNESBORO-HARRISONBURG, VA
SHENANDOAH VALLEY RGNL (SHD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 09239 (FAA)
TAKEOFF MINIMUMS: **Rwy 5,** std. w/ min. climb of 273' per NM to 3800, or 2200-2½ for climb in visual conditions. **Rwy 23,** standard, or 2200-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 5**, climb heading 047° to 3400 before turning right, or for climb in visual conditions cross Shenandoah Valley Rgnl airport at or above 3300 before proceeding on course. **Rwy 23**, climb heading 227° to 4400 before proceeding on course, or for climb in visual conditions cross Shenandoah Valley Rgnl airport at or above 3300 before proceeding on course.
NOTE: **Rwy 5,** trees 1720' from DER, 635' right of centerline, up to 100' AGL/1279' MSL. **Rwy 23,** tree 679' from DER, 616' left of centerline, 35' AGL/1194' MSL.

STEVENSVILLE, MD
BAY BRIDGE (W29)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07270 (FAA)
TAKEOFF MINIMUMS: **Rwy 29,** 500-3 or std. w/ min. climb of 317' per NM to 800.
NOTE: **Rwy 11,** road 354' from DER, on centerline, 17' AGL/35' MSL. Multiple trees beginning 1471' from DER, 32' left of centerline, up to 100' AGL/119' MSL. Multiple trees beginning 1485' from DER, 16' left of centerline, up to 100' AGL/119' MSL. **Rwy 29,** twin bridges 2.25 NM from DER, 2767' right of centerline, 410' AGL/410' MSL.

SUFFOLK, VA
SUFFOLK EXECUTIVE (SFQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 13122 (FAA)
NOTE: **Rwy 4,** trees beginning 4' from DER, 462' right and 428' left of centerline, up to 100' AGL/173' MSL. Trees beginning 1052' from DER, 783' right and 554' left of centerline, up to 100' AGL/173' MSL. Transmission poles and T-L towers beginning 1291' from DER, 600' right of centerline, up to 65' AGL/130' MSL. **Rwy 7,** trees beginning 10' from DER, 541' right and 400' left of centerline, up to 100' AGL/161' MSL. Trees beginning 1004' from DER 689' right of and 1280' left of centerline, up to 100' AGL/160' MSL. Transmission poles and T-L towers beginning 1152' from DER, right and left of centerline, up to 65' AGL/130' MSL. **Rwy 22,** trees beginning 44' from DER, 342' right and 494' left of centerline, up to 100' AGL/174' MSL. Trees beginning 1005' from DER, 1078' right and 481' left of centerline, up to 100' AGL/174' MSL. Vehicles on road beginning 483' from DER, right and left of centerline, up to 15' AGL/80' MSL. **Rwy 25,** vehicles on road beginning 199' from DER, right and left of centerline, up to 17' AGL/84' MSL. Trees beginning 231' from DER, right and left of centerline, up to 100' AGL/186' MSL.

TANGIER, VA
TANGIER ISLAND (TGI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09015 (FAA)
NOTE: **Rwy 2,** vehicle on road 343' from DER, on centerline, 15' AGL/19' MSL. Boat masts 638' from DER, 632' right to 755' left of centerline, up to 63' MSL. **Rwy 20,** buildings beginning 7' from DER, 206' left of centerline, 45' AGL/50' MSL. Rock wall at DER, 57' right of centerline, 4' AGL/8' MSL.

TAPPAHANNOCK, VA
TAPPAHANNOCK-ESSEX COUNTY (XSA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07298 (FAA)
TAKEOFF MINIMUMS: **Rwy 10,** 300-1¼ or std. w/ min. climb of 303' per NM to 500. **Rwy 28,** 300-1 or std. w/ min. climb of 366' per NM to 500.
NOTE: **Rwy 10,** terrain 6' from DER, 20' left of centerline, up to 135' MSL. Terrain 29' from DER, 281' left of centerline, up to 139' MSL. **Rwy 28,** terrain beginning 12' from DER, 5' right of centerline, up to 151' MSL.

WALLOPS ISLAND, VA

WALLOPS FLIGHT FACILITY (WAL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09127 (FAA)

NOTE: **Rwy 4,** trees beginning 1254' from DER, 741' left of centerline, up to 100' AGL/109' MSL. Trees beginning 1814' from DER, 79' right of centerline, up to 100' AGL/134' MSL. **Rwy 10,** trees beginning 1252' from DER, 818' left of centerline, up to 100' AGL/124' MSL. **Rwy 17,** trees beginning 169' from DER, 218' left of centerline, up to 100' AGL/119' MSL. **Rwy 22,** trees beginning 793' from DER, 315' left of centerline, up to 100' AGL/129' MSL. **Rwy 28,** trees beginning 945' from DER, 495' right of centerline, up to 100' AGL/139' MSL. **Rwy 35,** trees beginning 3' from DER, 394' left of centerline, up to 100' AGL/124' MSL. Trees beginning 21' from DER, 219' right of centerline, up to 100' AGL/124' MSL.

WAKEFIELD, VA

WAKEFIELD MUNI (AKQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 78278 (FAA)

DEPARTURE PROCEDURE: Climb straight ahead to 500 before proceeding on course.

WARRENTON, VA

WARRENTON-FAUQUIER (HWY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09099 (FAA)

NOTE: **Rwy 15,** trees 436' from DER, 518' right of centerline, 100' AGL/439' MSL. Vehicle on road 647' from DER, 649' right of centerline, 15' AGL/354' MSL. Trees 1034' from DER, 763' left of centerline, 100' AGL/449' MSL. Trees 1924' from DER, 781' right of centerline, 100' AGL/459' MSL. Trees beginning 2239' from DER, 41' left of centerline, up to 100' AGL/459' MSL. **Rwy 33,** trees beginning 1272' from DER, 59' right of centerline, up to 41' AGL/370' MSL. Trees beginning 2610' from DER, 116' left of centerline, up to 74' AGL/413' MSL.

WASHINGTON, DC

MANASSAS RGNL/HARRY P. DAVIS FIELD (HEF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 13010 (FAA)

NOTE: **Rwy 16L,** trees beginning 1247' from DER, 4' left of centerline, up to 106' AGL/311' MSL. Tree 1811' from DER, 158' left of centerline, 100' AGL/277' MSL. Trees beginning 1810' from DER, 14' right of centerline, up to 88' AGL/303' MSL. **Rwy 16R,** tree 749' from DER, 10' left of centerline, 23' AGL/194' MSL. Tree 638' from DER, 563' right of centerline, 67' AGL/227' MSL. Trees beginning 119' from DER, 497' right of centerline, up to 26' AGL/195' MSL. Trees 980' from DER, 707' right of centerline, up to 46' AGL/236' MSL. **Rwy 34R,** vegetation and trees beginning 29' from DER, 78' left of centerline, up to 33' AGL/197' MSL. Trees 518' from DER, 596' right of centerline, up to 29' AGL/206' MSL. Trees 2903' from DER, 1102' right of centerline, up to 80' AGL/280' MSL. Sign 70' from DER, 90' right of centerline, 6' AGL/190' MSL. Airfield lights beginning 25' from DER, 94' right of centerline, up to 5' AGL/193' MSL. Vehicle on road 198' from DER, 9' right of centerline, 15' AGL/214' MSL. **Rwy 34L,** trees beginning 1154' from DER, 291' left of centerline, up to 83' AGL/283' MSL. Light poles 1164' from DER, 759' left of centerline, 57' AGL/247' MSL. Tower 3390' from DER, 1103' left of centerline, 68' AGL/274' MSL. Building 2121' from DER, 328' left of centerline, 32' AGL/242' MSL. Trees 279' from DER, 130' right of centerline, up to 15' AGL/210' MSL. Trees beginning 1596' from DER, 374' right of centerline, up to 34' AGL/233' MSL. Vehicle on road 279' from DER, 130' right of centerline, 15' AGL/210' MSL.

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WASHINGTON, DC (CON'T)

RONALD REAGAN WASHINGTON NATIONAL (DCA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 12040 (FAA)

TAKEOFF MINIMUMS: **Rwy 1,** 600-2 w/min. climb of 270' per NM to 1400 or std. w/min. climb of 500' per NM to 800. **Rwy 4,** 400-3 or std. w/min. climb of 500' per NM to 420. **Rwy 15,** 300-1¾ or std. w/min climb of 205' per NM to 300. **Rwy 19,** 300-1½ or std. w/min climb of 205' per NM to 300. **Rwy 22,** 500-3 or std. w/min. climb of 280' per NM to 700. **Rwy 33,** std. w/min. climb of 246' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn as soon as practical to intercept DCA VOR/DME R-328. Maintain 5000 or as assigned. **Rwy 4,** climbing right turn as soon as practical to intercept DCA VOR/DME R-070. Maintain 2000 or as assigned. **Rwy 15,** climb heading 152° to 5000 or as assigned. **Rwy 19,** climb heading 185° to 500 before turning right. Maintain 5000 or as assigned. **Rwy 22,** climb heading 215° to 3000 or as assigned. **Rwy 33,** climb on DCA VOR/DME R-328. Maintain 5000 or as assigned.

NOTE: **Rwy 1,** building 119' from DER, 330' right of centerline, 16' AGL/23' MSL. Fence and trees beginning 261' from DER, 211' left of centerline, up to 62' AGL/72' MSL. Trees beginning 1365' from DER, 331' right of centerline, 47' AGL/51' MSL. Monument 1.7 NM from DER, 1784' left of centerline, 556' AGL/596' MSL. **Rwy 4,** monument 2.4 NM from DER, 656' right of centerline, 307' AGL/377' MSL. **Rwy15,** tree 1.4 NM from DER, 1290' left of centerline, 74' AGL/223' MSL. **Rwy 22,** poles beginning 500' from DER, on centerline, up to 11' AGL/28' MSL. Trees beginning 1024' from DER, 557' right of centerline, up to 78' AGL/90' MSL. Transmission pole 4732' from DER, 888' right of centerline, 100' AGL/149' MSL. Building 4903' from DER, 651' right of centerline, 97' AGL/144' MSL. Tower 1.3 NM from DER, 1421' left of centerline, 170' AGL/223' MSL. Crane 1.7 NM from DER, 1912' right of centerline, 240' AGL/276' MSL. Building 1.9 NM from DER, 2566' right of centerline, 200' AGL/370' MSL. **Rwy 33,** trees beginning 140' from DER, left and right of centerline, up to 70' AGL/80' MSL. Blast fence beginning 174' from DER, left and right of centerline, up to 9' AGL/24' MSL. Poles beginning 1221' from DER, left and right of centerline, up to 73' AGL/106' MSL. Buildings beginning 1557' from DER, 623' left of centerline, up to 102' AGL/142' MSL. Elevator 1829' from DER, 345' right of centerline, 71' AGL/88' MSL. Flagpole 1.7 NM from DER, 2118' left of centerline, 108' AGL/308' MSL.

NOTE: Prohibited area P-56 1.5 NM north of airport.

WASHINGTON DULLES INTL (IAD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 12208 (FAA)

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 121° to 700 before turning left.

NOTE: **Rwy 1C,** trees 2815' from DER, 1031' left of centerline, up to 80' AGL/345' MSL. Sign 64' from DER, 303' right of centerline, 13' AGL/272' MSL. **Rwy 1L,** tower 1917' from DER, 680' left of centerline, 51' AGL/330' MSL. **Rwy 19C,** sign 100' from DER, 472' left of centerline, 4' AGL/289' MSL. Vehicles on road 24' from DER, 274' right of centerline, up to 15' AGL/293' MSL. **Rwy 30,** trees 2264' from DER, 1033' right of centerline, up to 72' AGL/383' MSL.

WAYNESBORO, VA

EAGLE'S NEST (W13)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11181 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** std. w/min. climb of 400' per NM to 3300, or 2100-3 for climb in visual conditions. **Rwy 24,** 300-2 w/min. climb of 400' per NM to 3800 or 2100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6,** climb heading 061° to 3300 before proceeding on course, or for climb in visual conditions: cross Eagle's Nest Airport at or above 3400 MSL before proceeding on course. **Rwy 24,** climb heading 241° to 3800 before proceeding on course. Or for climb in visual conditions: cross Eagle's Nest Airport at or above 3400 MSL before proceeding on course.

NOTE: **Rwy 6,** hangar at DER, 220' left of centerline, 30' AGL/1469' MSL. Trees beginning 35' from DER, 158' right of centerline, up to 100' AGL/1539' MSL. Vehicles on road beginning 131' from DER. 201' left of centerline, up to 15' AGL/1454' MSL. Trees beginning 263' from DER, 189' left of centerline, up to 100' AGL/1539' MSL. Towers beginning 1.41NM from DER, 2539' right of centerline, 300' AGL/1670' MSL. **Rwy 24,** Trees beginning at DER left and right of centerline up to 100' AGL/1579' MSL. Trees beginning 1259' from DER, 143' right of centerline, up to 100' AGL/1730' MSL.

WEST POINT, VA

MIDDLE PENINSULA RGNL (FYJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 08157 (FAA)

NOTE: **Rwy 10,** multiple trees beginning 86' from DER, left and right of centerline, up to 100' AGL/129' MSL. **Rwy 28,** multiple trees beginning 33' from DER, left and right of centerline, up to 100' AGL/119' MSL. Ship mast 3427' from DER, left and right of centerline, 135' AGL/135' MSL.

11 DEC 2014 to 08 JAN 2015
11 DEC 2014 to 08 JAN 2015

WESTMINSTER, MD

CARROLL COUNTY RGNL/JACK B. POAGE FIELD (DMW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 10322 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, 400-2¾ or std. w/ min. climb of 215' per NM to 1300.

NOTE: **Rwy 16,** fence 188' from DER, 527' left of centerline, 10' AGL/789' MSL. Vehicle on road 558' from DER, 620' right of centerline, 15' AGL/794' MSL. Trees beginning 786' from DER, 657' left of centerline, up to 100' AGL/879' MSL. Tree 1882' from DER, 494' right of centerline, 100' AGL/879' MSL. Tower 2.3 NM from DER, 2042' left of centerline, 195' AGL/1144' MSL. **Rwy 34,** rising terrain and trees beginning 105' from DER, 123' left of centerline, up to 100' AGL/902' MSL. Trees beginning 967' from DER, 395' right of centerline, up to 100'AGL/868' MSL.

CLEARVIEW AIRPARK (2W2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09239 (FAA)

TAKEOFF MINIMUMS: **Rwy 32,** 300-2¼ or std. w/ min. climb of 290' per NM to 1200.

NOTE: **Rwy 14,** vehicles and aircraft on road/ taxiway 14' from DER, 47' right to left of centerline, 15' AGL/834' MSL. Trees beginning 35' from DER, 200' left of centerline, up to 100' AGL/939' MSL. Trees beginning 21' from DER, 90' right of centerline, up to 100' AGL/919' MSL. **Rwy 32,** vehicle on road 191' from DER, 516' left of centerline, 15' AGL/774' MSL. Trees beginning 8' from DER, 24' left of centerline, up to 100' AGL/959' MSL. Trees beginning 60' from DER, 50' right of centerline, up to 100' AGL/859' MSL.

WILLIAMSBURG, VA

WILLIAMSBURG-JAMESTOWN (JGG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 11349 (FAA)

DEPARTURE PROCEDURE: **Rwy 31**, climb heading 311° to 700 before turning right.

NOTE: **Rwy 13,** boat on creek 468' from DER, 608' left of centerline, up to 35' AGL/35' MSL. Homes beginning 1399' from DER, 278' left of centerline, up to 25' AGL/94' MSL. Trees beginning 712' from DER, left and right of centerline, up to 100' AGL/169' MSL. **Rwy 31,** aircraft on tarmac 2' from DER, 209' right of centerline, up to 20' AGL/79' MSL. Hanger 418' from DER, 268' right of centerline, up to 25' AGL/84' MSL. Multiple buildings and homes beginning 320' from DER, left and right of centerline, up to 30' AGL/109' MSL. Multiple trees beginning 1' from DER, left and right of centerline, up to 100' AGL/199' MSL.

WILMINGTON, DE

NEW CASTLE (ILG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07074 (FAA)

TAKEOFF MINIMUMS: **Rwy 19,** 300-1 or std. w/ min. climb of 266' per NM to 300.

NOTE: **Rwy 1,** multiple trees beginning 751' from DER, 32' left of centerline, up to 59' AGL/120' MSL, tree 1219' from DER, 482' right of centerline, 57' AGL/118' MSL, bush 118' from DER, 385' left of centerline, 4' AGL/65' MSL. **Rwy 9,** multiple trees beginning 1229' from DER, 30' right of centerline up to 62' AGL/133' MSL, tree 975' from DER, 66' left of centerline, 53' AGL/124' MSL, light pole 948' from DER, 596' right of centerline, 44' AGL/115' MSL, tree 1740' from DER, 458' left of centerline, 83' AGL/134' MSL, light pole 945' from DER, 316' right of centerline, 38' AGL/109' MSL, rod on building 916' from DER, 457' left of centerline, 29' AGL/100' MSL. **Rwy 14,** obstacle light 553' from DER, 440' left of centerline, 29' AGL/103' MSL, rod on obstacle light 606' from DER, 615' left of centerline, 19' AGL/93' MSL. **Rwy 19,** antenna on obstruction light tower 4469' from DER, 1684' right of centerline, 153' AGL/228' MSL, tree 1575' from DER, 850' right of centerline, 45' AGL/120' MSL, obstruction light on sign 971' from DER, 448' left of centerline, 28' AGL/103' MSL. **Rwy 27,** tree 697' from DER, 533' left of centerline, 68' AGL/147' MSL. Tree 1110' from DER, 584' right of centerline, 38' AGL/117' MSL, pole 793' from DER, 615' right of centerline, 28' AGL/107' MSL, bush 408' from DER, 415' left of centerline, 12' AGL/91' MSL. **Rwy 32,** tree 711' from DER, 207' right of centerline, 29' AGL/104' MSL, tree 1162' from DER, 83' right of centerline, 32' AGL/107' MSL.

WINCHESTER, VA

WINCHESTER RGNL (OKV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 11097 (FAA)

TAKEOFF MINIMUMS: **Rwy 32,** 800-2 or std. with a min. climb of 210' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 32,** climb runway heading to 1700 before turning on course.

NOTE: **Rwy 14,** trees beginning 496' from DER, 587' right of centerline, up to 66' AGL/765' MSL. Trees beginning 591' from DER, 561' left of centerline, up to 21' AGL/730' MSL. **Rwy 32,** trees beginning 374 ' from DER, 9' right of centerline, up to 66' AGL/805' MSL. Trees beginning 86' from DER, 27' left of centerline, up to 55' AGL/794' MSL.

WISE, VA

LONESOME PINE (LNP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10210 (FAA)

DEPARTURE PROCEDURE: **Rwy 6,** climb on heading 062° to 3600 before proceeding on course. **Rwy 24,** climb on heading 247° to 4900 before proceeding on course.

NOTE: **Rwy 6,** trees beginning 775' from DER, left and right of centerline, up to 100' AGL/2801' MSL. Terrain beginning 86' from DER, left and right of centerline, up to 2728' MSL. **Rwy 24,** trees beginning 159' from DER, left and right of centerline, up to 100' AGL/2794' MSL. Obstruction light on LOC 308' from DER 22' left of centerline, 8' AGL/2678' MSL. Obstruction light on LOC 304' from DER 22' right of centerline, 8' AGL/2678' MSL. Obstruction light on LOC/DME 306' from DER, 189' right of centerline, 15' AGL/2685' MSL. Terrain 159' from DER, 363' left of centerline, 2676' MSL.