


TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES


04162

INSTRUMENT APPROACH PROCEDURE CHARTS


IFR TAKE-OFF 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 take-off minimums other than standard, are listed below. Take-off 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 described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned another DP or radar vector by ATC, this procedure may be flown to ensure obstacle clearance.

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: FAR 91 prescribes standard take-off rules and establishes take-off 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) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS**ABINGDON, VA**

VIRGINIA HIGHLANDS

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.
DEPARTURE PROCEDURE: Climb straight ahead to 5000 when departing NE, or 4000 when departing SW, before proceeding on course.

ANDREWS AFB/NAF (KADW/KNSF)

CAMP SPRINGS, MD 04134

Runway 01L/01R:

TYSON ONE DEPARTURE: Turn left track 270° within 3 DME of ADW VORTAC, expect vectors to first fix, cross 8 DME West of ADW VORTAC and maintain 3000. Departure frequency-Potomac TRACON (PCT) 118.95/257.2.

KRANT ONE DEPARTURE: Track 010° expect vectors to first fix, climb and maintain 3000. Departure frequency-Potomac TRACON (PCT) 125.65/348.725.

KRANT TWO DEPARTURE: Turn right track 050°, expect vectors to first fix, climb and maintain 3000. Departure frequency Potomac TRACON (PCT) 125.65/348.725.

TAKE-OFF OBSTACLES:

Runway 01L: Tree 326' MSL, 2070' from DER, 634' right of centerline, tree 336' MSL, 2094' from DER, 833' right of centerline, tree 330' MSL, 2165' from DER, 786' right of centerline, tree 339' MSL, 2612' from DER, 765' right of centerline, tree 330' MSL, 2152' from DER, 317' left of

NAME TAKE-OFF MINIMUMS**CAMP SPRINGS, MD (CON'T)**

centerline, tree 332' MSL, 2292' from DER, 296' left of centerline, tree 336' MSL, 2480' from DER, 449' left of centerline, tree 329' MSL, 2041' from DER, 894' left of centerline.

Runway 01R: Tree 334' MSL, 1633' from DER, 521' right of centerline, tree 340' MSL, 2272' from DER, 269' right of centerline, tree 346' MSL, 2354' from DER, 477' right of centerline, tree 333' MSL, 1511' from DER, 855' right of centerline, tree 336' MSL, 1631' from DER, 320' left of centerline, tree 337' MSL, 2180' from DER, 214' left of centerline, tree 337' MSL, 2253' from DER, 645' left of centerline, tree 334' MSL, 1639' from DER, 789' left of centerline.

Runway 19L/19R:

TYSON SOUTH DEPARTURE: Track 190°, expect vectors to first fix, climb and maintain 3000. Departure frequency-Potomac TRACON (PCT) 118.95/257.2.

KRANT SOUTH DEPARTURE: Track 190°, expect vectors to first fix, climb and maintain 3000. Departure frequency Potomac TRACON (PCT) 125.65/348.725.

TAKE-OFF OBSTACLES: Runway 19L: Tree 315' MSL, 1866' from DER, 630' left of centerline, tree 320' MSL, 2152' from DER, 559' left of centerline, tree 344' MSL, 2493' from DER, 421' left of centerline, tree 324' MSL, 1361' from DER, 865' left of centerline.

04162


TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES


NE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

04162

ANNAPOLIS, MD

LEE

TAKE-OFF 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 departure end of runway at or above 35' AGL/66' MSL. **Rwy 30**, trees, 1433' from departure end of runway, 85' left of centerline, 100' AGL/139' MSL. Cross departure end of runway at or above 35' AGL/66' MSL.

BALTIMORE, MD

BALTIMORE-WASHINGTON INTL

TAKE-OFF MINIMUMS: **Rwys 33L, 33R**, 1400-3 or std. with a min. climb of 250' per NM to 1900.

NOTE: **Rwy 15L**, trees 620' left of departure end of runway, 57' AGL/172' MSL. **Rwy 33R**, trees 914' right of departure end of runway, 124' AGL/266' MSL.

Rwy 33R, trees 648' left of departure end of runway, 106' AGL/248' MSL.

MARTIN STATE

TAKE-OFF 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 departure end of runway 684' left of centerline, 78' AGL/88' MSL, trees 3395' from departure end of runway, 585' left of centerline, 92' AGL/102' MSL. **Rwy 33**, pole 1553' from departure end of runway, across centerline, 68' AGL/90' MSL. Trees 2342' from departure end of runway, across centerline 86' AGL/108' MSL.

BLACKSBURG, VA

VIRGINIA TECH/MONTGOMERY EXECUTIVE

TAKE-OFF MINIMUMS: **Rwy 12**, 400-1 or std. with a min. climb of 400' per NM to 2600. **Rwy 30**, 700-2 or std. with a min. climb of 220' per NM to 3000.

DEPARTURE PROCEDURE: **Rwy 12**, climb to 2600 then climbing right turn to 6000 direct TEC NDB before proceeding on course. Cross TEC NDB at or above 6000'. **Rwy 30**, climb to 3000 then climbing left turn to 6000 direct TEC NDB before proceeding on course. Cross TEC NDB at or above 6000'.

BLACKSTONE, VA

ALLEN C. PERKINSON/BAAF

TAKE-OFF MINIMUMS: **Rwy 1**, 1000-2 or std. with a min. climb of 280' per NM to 1700. **Rwy 4**, 1000-2 or std. with a min. climb of 220' per NM to 1700. **Rwy 19**, NA.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading 010° to 1700 before proceeding on course. **Rwy 4**, climb heading 039° to 1700 before proceeding on course.

Rwy 22, climb heading 208° to 900 before proceeding on course. **Rwy 22**, climb heading 208° to 900 before proceeding on course.

NOTE: **Rwy 4**, 50' AGL tree, 150' from departure end of runway, 450' right of centerline. **Rwy 22**, 66' AGL tree, 175' from departure end of runway, 450' left of centerline. Do not fly over ammunition dump 1.1 NM SW of Rwy 4.

BRIDGEWATER, VA

BRIDGEWATER AIRPARK

TAKE-OFF MINIMUMS: **Rwy 15**, 700-1. **Rwy 33**, 700-2.

DEPARTURE PROCEDURE: All aircraft climb in VBV holding pattern (SW, right turns, 035° inbound) to 4000 before proceeding on course.

CAMBRIDGE, MD

CAMBRIDGE-DORCHESTER

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1.

CHARLOTTESVILLE, VA

CHARLOTTESVILLE-ALBEMARLE

TAKE-OFF MINIMUMS: **Rwy 3**, 600-3 or std. with a min. climb of 300' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 3, 21**, climb runway heading to 4000 before proceeding on course.

CHURCHVILLE, MD

HARFORD COUNTY

TAKE-OFF MINIMUMS: **Rwy 28**, 300-1 or std. with a min. climb of 400' per NM to 600.

NOTE: **Rwy 28**, 100' terrain/trees 1150' from departure end of runway.

CLARKSVILLE, VA

MARKS MUNI

TAKE-OFF MINIMUMS: **Rwy 4**, 600-1 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 22**, climb runway heading to 1900 before turning.

COLLEGE PARK, MD

COLLEGE PARK

TAKE-OFF MINIMUMS: **Rwys 15, 33**, 300-1.

DEPARTURE PROCEDURE: **Rwy 33**, climb runway heading to 600 before proceeding on course.

04162



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

04162

CRISFIELD, MD

CRISFIELD MUNI

TAKE-OFF 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.

CUMBERLAND, MD

GREATER CUMBERLAND REGIONAL

TAKE-OFF MINIMUMS: **Rwy 5**, 1700-2 or std. with a
 min. climb of 300' per NM to 3400. **Rwy 11**, 1600-2 or
 std. with a min. climb of 520' per NM to 3400. **Rwy 23**,
 1200-2 or std. with a min. climb of 660' per NM to 3400.
Rwy 29, NA.
 DEPARTURE PROCEDURE: **Rwys 5, 11**, climb runway
 heading to 3400 before proceeding on course. **Rwy 23**,
 climbing left turn to intercept 177° course from CBE
 NDB to 3400 before proceeding on course.

DANVILLE, VA

DANVILLE REGIONAL

TAKE-OFF MINIMUMS: **Rwys 2, 31**, 300-1 or std. with a
 min. climb of 240' per NM to 1000.

DAVISON AAF (KDA A)

FORT BELVOIR, VA

..... **Rwy 32**, 300-1*
 * Or standard with minimum climb of 380' NM to 500.
 TAKE-OFF OBSTACLES: **Rwy 32**, 63' AGL tree 865'
 from departure end of rwy, 82' right of centerline.

DOVER AFB (KDOV)

DOVER, DE

Rwy 32, 67 AGL acft (C-5s) parked on ramp
 beginning 1585' from departure end of rwy, 885' left
 of centerline.

DUBLIN, VA

NEW RIVER VALLEY

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn
 to 5000 heading 120° before proceeding on course.
Rwy 24, climb runway heading to 5000 before
 proceeding on course.

ELKTON, MD

CECIL COUNTY

TAKE-OFF MINIMUMS: NOTE: **Rwy 13**, cross
 departure end of runway at or above 27' AGL/89' MSL.
Rwy 31, cross departure end of runway at or above 20'
 AGL/126' MSL.
 NOTE: **Rwy 13**, trees 185' from departure end of runway,
 110' right of centerline, 50' AGL/113' MSL. Trees 325'
 from departure end of runway, 125' left of centerline,
 75' AGL/138' MSL. **Rwy 31**, trees, 1350' from
 departure end of runway, on centerline, 115' AGL/221'
 MSL.

FORT MEADE (ODENTON), MD

TIPTON

NOTE: **Rwy 10**, cross departure end of runway at or above
 17' AGL/167' MSL. **Rwy 10**, trees 1052' right of
 departure end of runway, 88' AGL/238' MSL.

FRANKLIN, VA

FRANKLIN MUNI-JOHN BEVERLY ROSE

TAKE-OFF MINIMUMS: **Rwy 22**, 500-1.
 DEPARTURE PROCEDURE: **Rwy 14**, climb straight
 ahead to 500 before proceeding on course.

FREDERICK, MD

FREDERICK MUNI

TAKE-OFF MINIMUMS: **Rwy 12**, 500-3 or std. with a
 min. climb of 270' per NM to 1000.
 DEPARTURE PROCEDURE: **Rwys 5, 23**, climb runway
 heading to 2000 before proceeding on course. **Rwy 30**,
 climbing right turn to intercept FDK VOR R-010 to 2400
 before proceeding on course.

FREDERICKSBURG, VA

SHANNON

TAKE-OFF MINIMUMS: **Rwy 24**, 800-3 or std. with a
 min. climb of 290' per NM to 800.
 DEPARTURE PROCEDURE: **Rwy 24**, climb to 800 via
 runway heading before proceeding on course.
 NOTE: 744' tower 2.1 NM from departure end of **Rwy 24**.

FRIENDLY, MD

POTOMAC AIRFIELD

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.
 NOTE: **Rwy 6**, 50' AGL trees 300' left of departure end of
 runway. 75' AGL trees 320' right of departure end of
 runway. **Rwy 24**, 80' AGL trees 200' right of departure
 end of runway. 75' AGL trees 200' left of departure end of
 runway. 30' AGL hanger 200' from departure end of
 runway, 190' right of centerline.

GAITHERSBURG, MD

MONTGOMERY COUNTY AIRPARK

TAKE-OFF MINIMUMS: NOTE: **Rwy 14**, 62' AGL trees
 197' right of centerline. **Rwy 32**, 63' AGL trees 335' left
 of centerline.

GALAX-HILLSVILLE, VA

TWIN COUNTY

TAKE-OFF MINIMUMS: **Rwys 18**, 300-1 or std. with a
 min. climb of 240' per NM until passing 3000. **Rwy 36**,
 300-1 or std. with a min. climb of 310' per NM until
 passing 3000.

GEORGETOWN, DE

SUSSEX COUNTY

TAKE-OFF MINIMUMS: **Rwys 4, 13, 22, 31**, 300-1.

04162



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

04162

GRUNDY, VA

GRUNDY MUNI

TAKE-OFF MINIMUMS: **Rwy 22**, 300-2 or std. with a min. climb of 240' per NM to 2700.

HAGERSTOWN, MD

HAGERSTOWN REGIONAL -

RICHARD A. HENSON FIELD

TAKE-OFF MINIMUMS: **Rwy 2**, 300-1.

DEPARTURE PROCEDURE: **Rwy 9**, climbing left turn to 2500 via 040° heading to intercept the HGR R-084 before departing as cleared. **Rwys 2, 20**, climb to 2000 before returning eastbound.

HOT SPRINGS, VA

INGALLS FIELD

TAKE-OFF MINIMUMS: **Rwy 7**, 500-1 or std. with a min. climb of 320' per NM to 4400. **Rwy 25**, 600-1 or std. with a min. climb of 390' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 7**, climb runway heading to 4400 before proceeding on course.

Rwy 25, climb runway heading to 5000 before proceeding on course.

INDIAN HEAD, MD

MARYLAND

NOTE: **Rwy 18**, trees 150' left of departure end of runway, 50' AGL/185' MSL. **Rwy 36**, trees 200' left of departure end of runway, 90' AGL/125' MSL.

LANGLEY AFB (KLF)

HAMPTON, VA

..... **Rwy 8**, 600-3*

* Or standard with minimum climb of 240'/NM to 700.

TAKE-OFF OBSTACLES: **Rwy 8**: Antennas (4) 504' (409' AGL), 12,484' from departure end of rwy, 10,955' right of centerline; tower 507' (502' AGL), 11,948' from departure end of rwy, 11,063' right of centerline.

LAUREL, DE

LAUREL

DEPARTURE PROCEDURE: **Rwys 15, 33**, climb runway heading to 1200 before proceeding on course.

LEESBURG, VA

LEESBURG EXECUTIVE

TAKE-OFF MINIMUMS: **Rwys 17, 35**, 300-1 or std. with a min. climb of 250' per NM until passing 1200.

LURAY, VA

LURAY CAVERNS

TAKE-OFF 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

LYNCHBURG REGIONAL/PRESTON GLENN

FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 500-1 or std. with a min. climb of 320' per NM to 2000. **Rwy 17**, 400-1 or std. with a min. climb of 200' per NM to 1400. **Rwy 35**, 1900-3 or std. with a min. climb of 220' per NM to 3400. DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn to 3000 via heading 010°, then as filed. **Rwy 22**, climb runway heading to 3000, then as filed.

MANASSAS, VA

MANASSAS REGIONAL/HARRY P. DAVIS

FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R, 34L, 34R**, climb runway heading to 800' before proceeding on course.

NOTE: **Rwy 16L**, 80' AGL/272 MSL trees 1900' from departure end of runway on centerline.

MARION/WYTHEVILLE, VA

MOUNTAIN EMPIRE

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1. **Rwy 26**, 800-1. DEPARTURE PROCEDURE: **Rwy 8**, climb direct to MK NDB then climb to 5300 via 073° bearing before proceeding on course. **Rwy 26**, climb to 5400 via 253° bearing from MK NDB before proceeding on course.

MARTINSVILLE, VA

BLUE RIDGE

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 240' per NM to 1100. **Rwy 30**, 300-1 or std. with a min. climb of 370' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 12**, climb direct BALESLOM, climb in BALESLOM holding pattern (SE, right turns, 304° inbound) to 4000 before proceeding on course. **Rwy 30**, climbing right turn direct BALESLOM, climb in BALESLOM holding pattern (SE, right turns, 304° inbound) to 4000 before proceeding on course.

MELFA, VA

ACCOMACK COUNTY

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1 or std. with a min. climb of 230' per NM to 300. **Rwy 21**, 300-1 or std. with a min. climb of 410' per NM to 300.

NOTE: **Rwy 3**, trees 460' right of departure end of runway, 24' AGL/114' MSL. Road 250' from departure end of runway, 275' left of centerline, 72' MSL. **Rwy 21**, trees 440' right of departure end of runway, 89' AGL/135' MSL.

MIDDLETOWN, DE

SUMMIT

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1, or std. with a min. climb of 280' per NM to 400.

04162



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

04162

MITCHELLVILLE, MD

FREEWAY

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 295' per NM to 500. **Rwy 36**, 300-1 or std. with a min. climb of 500' per NM to 600.

NOTE: **Rwy 18**, trees 328' from departure end of runway, 20' AGL/178' MSL. Trees 838' from departure end of runway, 337' left of centerline, 50' AGL/220' MSL.

Rwy 36, cross departure end of runway at or above 35' AGL/203' MSL. Road/vehicle, 231' from departure end of runway, 17' AGL/185' MSL. Trees 332' from departure end of runway, 20' AGL/188' MSL. Power poles and lines crossing centerline, 2280' from departure end of runway, 186' AGL/345' MSL.

MONETA, VA

SMITH MOUNTAIN LAKE

TAKE-OFF MINIMUMS: **Rwys 5, 23**, 300-1.

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb straight ahead to 1600 before proceeding on course.

NORFOLK, VA

CHEESAPEAKE REGIONAL

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb runway heading to 500 before proceeding on course.

NOTE: **Rwy 5**, cross departure end of runway at or above 27' AGL/48' MSL. Trees 2200' from departure end of runway, 545' left of centerline, 81' AGL/102' MSL.

Rwy 23, cross departure end of runway at or above 25' AGL/43' MSL. Trees 1600' from departure end of runway, 710' right of centerline, 62' AGL/82' MSL.

HAMPTON ROADS EXECUTIVE

TAKE-OFF MINIMUMS: **Rwys 2, 10, 20, 28**, 300-1.

DEPARTURE PROCEDURE: **Rwys 2, 10, 20, 28**, climb straight ahead to 2000 before proceeding on course.

NORFOLKNS (CHAMBERS FIELD)

(KNGU)

NORFOLK, VA

Diverse departure not authorized.

TAKE-OFF OBSTACLES: Rwy 10: Trees with a maximum height of 88' within 1800' of departure end of rwy. 47' pole 729' from departure end of rwy. 22' road and vehicles 302' from departure end of rwy.

OCEAN CITY, MD

OCEAN CITY MUNI

TAKE-OFF MINIMUMS: **Rwys 2, 32**, 400-2 or std. with a min. climb of 260' per NM to 500.

OCEANA NAS (KNTU)

VIRGINIA BEACH, VA

Diverse Departure not Authorized.

ORANGE, VA

ORANGE COUNTY

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1.

DEPARTURE PROCEDURE: **Rwys 7, 25**, climb runway heading to 1500 before turning.

PATUXENT RIVER NAS (TRAPNELL FIELD), (KNHK)

PATUXENT RIVER, MD

Rwy 6, cross DER at or above 10' AGL/30' MSL.

Rwy 14, cross DER at or above 35' AGL/51' MSL.

Rwy 20, cross DER at or above 10' AGL/47' MSL.

Rwy 24, cross DER at or above 35' AGL/74' MSL.

TAKE-OFF OBSTACLES: Rwy 14, 41' AGL/57' MSL trees 186' from departure end of rwy, 219' left of centerline.

PHILLIPS AAF (KAPG)

ABERDEEN PROVING GROUND, MD

Rwy 35, climb on hdg 360° to 800 before turning West.

QUANTICO MCAF (TURNER FIELD) (NYG)

QUANTICO, VA

..... Rwy 2, 400-1*

* Or standard with minimum climb of 410/NM to 300.

TAKE-OFF OBSTACLES: Rwy 2: 78' AGL smokestack 2305' from departure end of rwy, 406' left of centerline; 75' AGL trees 4069' from departure end of rwy, 809' left of centerline; 75' AGL trees 5758' from departure end of rwy, 502' right of centerline; 75' AGL trees 8466' from departure end of rwy, 904' right of centerline. Rwy 20: 11' AGL traverse way 81' from departure end of rwy.

RICHLANDS, VA

TAZEWELL COUNTY

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 or std. with a min. climb of 430' per NM to 3000. **Rwy 25**, 300-1 or std. with a min. climb of 280' per NM to 2900.

DEPARTURE PROCEDURE: **Rwy 7**, climb runway heading to 4700 before proceeding southbound.

Rwy 25, climb runway heading to 4100 before proceeding southbound.

RICHMOND, VA

CHESTERFIELD COUNTY

TAKE-OFF MINIMUMS: **Rwy 15**, 800-1 or std. with a min. climb of 280' per NM to 1200. **Rwy 33**, 1200-1, or std. with a min. climb of 220' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 15**, climb runway heading to 1200' before proceeding on course.

Rwy 33, climb runway heading to 1700' before proceeding on course.

NOTE: **Rwy 15**, 18' AGL pole 1315' from departure end of runway, 304' left of centerline. **Rwy 33**, 84' AGL tree 2399' from departure end of runway, 84' left of centerline.

RICHMOND INTL

NOTE: **Rwy 2**, cross departure end of runway at or above 30' AGL/195' MSL. **Rwy 7**, cross departure end of runway at or above 34' AGL/223' MSL. **Rwy 16**, cross departure end of runway at or above 22' AGL/183' MSL.

Rwy 20, cross departure end of runway at or above 35' AGL/193' MSL. **Rwy 25**, cross departure end of runway at or above 20' AGL/176' MSL. **Rwy 34**, cross departure end of runway at or above 10' AGL/177' MSL.

04162



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



ROANOKE, VA

ROANOKE REGIONAL/ WOODRUM FIELD
 TAKE-OFF MINIMUMS: **Rwys 6, 33**, NA - obstacles.
 DEPARTURE PROCEDURE: **Rwy 15**, climb via heading
 154° to intercept the ROA VORTAC R-122 to 4000
 before proceeding on course. **Rwy 24**, use DIXXY
 DEPARTURE.
 NOTE: **Rwy 15**, trees 1.18 NM from departure end of
 runway, 2122' left of centerline, 60' AGL/1321' MSL.

SALUDA, VA

HUMMEL FIELD
 DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway
 heading to 1000 before turning on course.
 NOTE: **Rwy 1**, 23' AGL tree left of departure end of
 runway, 65' AGL tree 663' from departure end of runway,
 129' left of centerline. **Rwy 19**, 26' AGL tree 237' from
 departure end of runway, 116' right of centerline.

SOUTH BOSTON, VA

WILLIAM M. TUCK
 TAKE-OFF MINIMUMS: **Rwy 1**, 300-1. **Rwys 5, 23**, NA.
 NOTE: **Rwy 1**, 72' AGL tower 324' from departure end of
 runway, 283' left of runway centerline.

SOUTH HILL, VA

MECKLENBURG-BRUNSWICK REGIONAL
 TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min.
 climb of 250' per NM to 1000. **Rwy 19**, 300-1 or std. with
 a min. climb of 370' per NM to 1000'
 DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway
 heading to 1000 before proceeding on course.

STAFFORD, VA

STAFFORD REGIONAL
 DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn
 to 2000, intercept and proceed via BRV R-310 to BRV
 VORTAC, before proceeding on course. **Rwy 33**,
 climbing left turn to 2000, intercept and proceed via BRV
 R-306 to BRV VORTAC, before proceeding on course.
 NOTE: **Rwy 33**, cross departure end of runway at or above
 34' AGL/246' MSL.

STAUNTON-WAYNESBORO- HARRISONBURG, VA

SHENANDOAH VALLEY REGIONAL
 DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn
 direct STAUT LOM. **Rwy 23**, climb direct STAUT LOM.
All aircraft cross STAUT LOM at or above 4500, if not
 at 4500 continue climb in STAUT holding pattern (SW,
 left turns, 045° inbound) to 4500 before proceeding on
 course.

SUFFOLK, VA

SUFFOLK MUNI
 TAKE-OFF MINIMUMS: **Rwys 4, 7, 15, 22, 25, 33**, 300-1.

WAKEFIELD, VA

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

WASHINGTON, DC

RONALD REAGAN WASHINGTON NATIONAL
 TAKE-OFF MINIMUMS: **Rwy 22**, 400-2½ or std. with a
 min. climb of 210' per NM to 500. **Rwy 33**, 700-3 or std.
 with a min. climb of 260' per NM to 700. **Rwy 1**, 600-2 or
 std. with a min. climb of 370' per NM to 700.
 DEPARTURE PROCEDURE: **Rwy 1**, left turn as soon as
 practicable, intercept DCA R-328. Climb to 5000 or as
 assigned. **Rwy 33**, intercept DCA R-328. Climb to 5000
 or as assigned.
 NOTE: **Prohibited area, P-56**, 1.5 NM north of airport.

WESTMINSTER, MD

CARROLL COUNTY REGIONAL/JACK B.
 POAGE FIELD
 TAKE-OFF MINIMUMS: **Rwy 16**, 400-1 or std. with a
 min. climb of 210' per NM to 1300. **Rwy 34**, 300-1 or std.
 with a min. climb of 320' per NM to 1000.
 NOTE: **Rwy 16**, 87' AGL trees 644' from departure end of
 runway. **Rwy 34**, 102' AGL trees 116' from departure
 end of runway, 220' right of centerline.

WILLIAMSBURG, VA

WILLIAMSBURG-JAMESTOWN
 TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.

WINCHESTER, VA

WINCHESTER REGIONAL
 TAKE-OFF 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.

WISE, VA

LONESOME PINE
 TAKE-OFF MINIMUMS: **Rwy 24**, 1800-3 or std. with a
 min. climb of 400' per NM to 4700.
 DEPARTURE PROCEDURE: **Rwy 6**, climb on runway
 heading to 3800 before proceeding on course.
Rwy 24, climb on runway heading to 4500 before
 proceeding on course.

