

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability. **A**NA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate. A procedure is not authorized for alternate flight planning purposes when local weather is not available.

MILITARY USERS NOTE: For IFR alternate airport and minima planning, refer to appropriate service directives.

Alternate Minima (ref: 14 CFR 91.169)

	Precision Approach	Non-Precision Approach
Standard	600-2	800-2
A Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	

Note: For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

ABINGDON, VA

VIRGINIA HIGHLANDS (VJI).....**LOC Rwy 24¹**
RNAV (GPS) Rwy 6²
RNAV (GPS) Rwy 24²

NA when local weather not available.

¹Categories A, B, 900-2½, Category C, 900-2½,

Category D, 1000-3.

²Category C, 800-2½, Category D, 1000-3.

BALTIMORE, MD

BALTIMORE-WASHINGTON INTL THURGOOD
MARSHALL (BWI).....**ILS or LOC Rwy 10¹**
ILS or LOC Rwy 15R¹
ILS or LOC Rwy 28¹
ILS or LOC Rwy 33L¹
RNAV (GPS) Y Rwy 10²
RNAV (GPS) Y Rwy 15R²
RNAV (GPS) Y Rwy 28²
RNAV (GPS) Y Rwy 33L²

¹LOC, Category D, 800-2½.

²Category D, 800-2½.

NAME ALTERNATE MINIMUMS

BALTIMORE, MD (CON'T)

MARTIN STATE (MTN).....**ILS or LOC Rwy 33¹²**
LOC Rwy 15¹³
RNAV (GPS) Rwy 15⁴
RNAV (GPS) Rwy 33⁴
VOR or TACAN Rwy 15⁵

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 800-2½.

³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

⁴Category D, 800-2½.

⁵Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.

BLACKSBURG, VA

VIRGINIA TECH/MONTGOMERY
EXEC (CBF).....**RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31

NA when local weather not available.

Category C, 900-2½.

BLACKSTONE, VA

ALLAN C PERKINSON/
BLACKSTONE AAF (BKT).....**NBD-A¹**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22

NA when local weather not available.

¹Categories A, B, C, 800-3.

NAME ALTERNATE MINIMUMS

BRIDGEWATER, VA

BRIDGEWATER AIR
PARK (VBW).....RNAV (GPS) Rwy 33
NA when local weather not available.

BROOKNEAL, VA

BROOKNEAL/CAMPBELL
COUNTY (0V4).....RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 24
NA when local weather not available.

BUMPASS, VA

LAKE ANNA (7W4).....RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 26
NA when local weather not available.
Categories A, B, 1100-3.

CAMBRIDGE, MD

CAMBRIDGE-DORCHESTER
RGNL (CGE).....RNAV (GPS) Rwy 34
RNAV (GPS)-A
Category D, 800-2½.
NA when local weather not available.

CHARLOTTESVILLE, VA

CHARLOTTESVILLE-
ALBEMARLE (CHO).....ILS or LOC Rwy 3¹
RNAV (GPS) Rwy 3²
RNAV (GPS) Y Rwy 21²
RNAV (GPS) Z Rwy 21³
NA when local weather not available.
¹LOC, Category C, 900-2½; Category D, 900-2¼.
²Category C, 900-2½; Category D, 900-2¼.
³Categories, A, B, C, D, 1000-4.

CHASE CITY, VA

CHASE CITY
MUNI (CXE).....RNAV (GPS) Rwy 18¹
RNAV (GPS) Rwy 36²
NA when local weather not available.
¹Categories A, B, 1100-3.
²Categories A, B, 1000-3.

CHURCHVILLE, MD

HARFORD COUNTY (0W3).....RNAV (GPS)-B
NA when local weather not available.

CLARKSVILLE, VA

LAKE COUNTRY
RGNL (W63).....RNAV (GPS) Rwy 4
NA when local weather not available.

COLLEGE PARK, MD

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

NAME ALTERNATE MINIMUMS

CREWE, VA

CREWE MUNI (W81).....RNAV (GPS)-A
RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1000-3.

CULPEPER, VA

CULPEPER RGNL (CJR).....RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
LOC Rwy 4
VOR-A¹
NA when local weather not available.
¹Category D, 800-2½.

CUMBERLAND, MD

GREATER CUMBERLAND
RGNL (CBE).....LOC/DME Rwy 23¹⁴
RNAV (GPS) Rwy 5²
RNAV (GPS) Rwy 23³
NA when local weather not available.
¹Category A, 1000-2; Category B, 1400-2;
Category C 1500-3, Category D 1600-3.
²Category A, 1100-2; Category B, 1400-2;
Category C, 1500-3; Category D, 1600-3.
³Category A, 1100-2; Category B, 1400-2;
Category C, 1500-3.
⁴NA when CBE FBO closed.

DANVILLE, VA

DANVILLE RGNL (DAN).....ILS or LOC Rwy 2
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
RNAV (GPS) Rwy 31
NA when local weather not available.

DOVER/CHESWOLD, DE

DELAWARE
AIRPARK (33N).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
VOR Rwy 27
NA when local weather not available.
Category C, 800-2¼; Category D, 800-2½.

DUBLIN, VA

NEW RIVER
VALLEY (PSK).....RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 24
NA when local weather not available.
Category D, 800-2¼.

EASTON, MD

EASTON/NEWMAM
FLD (ESN).....ILS or LOC Rwy 4¹
RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 22²
¹ILS, LOC, NA when control tower closed.
²NA when local weather not available.

NAME ALTERNATE MINIMUMS

LURAY, VA

LURAY CAVERNS (LUA).....**RNAV (GPS) Rwy 4¹**
RNAV (GPS) Rwy 22²
VOR/DME-B³

NA when local weather not available.

¹Categories A, B, 1400-2, Category C, 1400-3.

²Categories A, B, 1000-2, Category C, 1000-2½.

³Categories A, B, 1300-2, Category C, 1300-3.

LYNCHBURG, VA

LYNCHBURG RGNL/PRESTON GLENN
 FLD (LYH).....**ILS or LOC Rwy 4¹**
RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 17³
RNAV (GPS) Rwy 22⁴
RNAV (GPS) Rwy 35³

¹LOC, Category B, 900-2, Category C, 900-2½,
 Category D, 900-2¾.

²Category B, 900-2; Category C, 900-2½;

Category D, 900-2¾.

³Category B, 900-2.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

MARION/WYTHEVILLE, VA

MOUNTAIN
 EMPIRE (MKJ).....**RNAV (GPS) Rwy 26**
 Category C, 1900-3.

MARTINSVILLE, VA

BLUE RIDGE (MTV).....**LOC Rwy 31¹**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31

Category D, 900-2¾.

NA when local weather not available.

¹NA when MTV FBO closed.

MELFA, VA

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

MIDDLETOWN, DE

SUMMIT (EVY).....**RNAV (GPS) Rwy 17**
RNAV (GPS) Y Rwy 35
RNAV (GPS) Z Rwy 35
 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.

NAME ALTERNATE MINIMUMS

NEWPORT NEWS, VA

NEWPORT NEWS/WILLIAMSBURG
 INTL (PHF).....**ILS or LOC Rwy 7¹²³**
ILS or LOC Rwy 25³
LOC Rwy 20¹⁴
RNAV (GPS) Rwy 2⁴
RNAV (GPS) Rwy 7⁴
RNAV (GPS) Rwy 20⁴

¹NA when control tower closed.

²NA when local weather not available.

³LOC, Category D, 800-2¼.

⁴Category D, 800-2¼.

NORFOLK, VA

CHESAPEAKE
 RGNL (CPK).....**ILS or LOC Rwy 5**
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
 NA when local weather not available.

HAMPTON ROADS

EXEC (PVG).....**RNAV (GPS) Rwy 10**
 Category C, 800-2¼.

NORFOLK

INTL (ORF).....**ILS or LOC Rwy 5¹**
ILS or LOC Rwy 23¹
RNAV (GPS) Rwy 14²
RNAV (GPS) Rwy 32²
RNAV (GPS) Z Rwy 5²
RNAV (GPS) Z Rwy 23²
VOR Rwy 14²
VOR/DME Rwy 32²

¹LOC, Category D, 900-2¾.

²Category D, 900-2¾.

OAKLAND, MD

GARRETT
 COUNTY (2G4).....**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
VOR Rwy 9
 NA when local weather not available.

OCEAN CITY, MD

OCEAN CITY
 MUNI (OXB).....**LOC Rwy 32¹²**
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

¹Category D, 800-2½.

²NA when FBO closed.

ORANGE, VA

ORANGE
 COUNTY (OMH).....**RNAV (GPS) Rwy 8¹**
RNAV (GPS) Rwy 26¹
VOR/DME-A²

NA when local weather not available.

¹Categories A, B, 900-2.

²Categories A, B, 1600-2.

NAME ALTERNATE MINIMUMS

PETERSBURG, VA

TRI CITIES EXEC/DINWIDDIE
COUNTY (PTB).....**LOC Rwy 5¹**
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
VOR Rwy 23

NA when local weather not available.

¹NA when arpt unattended.

PHILLIPS AAF (KAPG)

ABERDEEN PROVING
GROUND, MD.....**RNAV (GPS) Rwy 22**
NA when control tower closed.

QUINTON, VA

NEW KENT
COUNTY (W96).....**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

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**
LOC, Categories C, D, 800-2½.

RICHMOND/ASHLAND, VA

HANOVER COUNTY
MUNI (OPF).....**LOC Rwy 16¹**
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 34¹
VOR Rwy 16

Category D, 900-2¾.

¹NA when local weather not available.

ROANOKE, VA

ROANOKE/BLACKSBURG RGNL
(WOODRUM FLD) (ROA).....**ILS or LOC Rwy 34¹**
LDA Y Rwy 6²
RNAV (GPS) Y Rwy 6³
RNAV (GPS) Y Rwy 24⁴
RNAV (GPS) Y Rwy 34⁵
RNAV (RNP) Z Rwy 34⁶

¹ILS, Categories A, B, C, D, 900-4. LOC, Categories A, B, 1000-2; Category C, 1300-3; Category D, 1700-3.

²LDA/GS, Categories A, B, 800-2; Category C, 1300-3; Category D, 1700-3. LDA, Category C 1300-3, Category D, 1700-3.

³Categories A, B, 900-2; Category C, 1300-3; Category D, 1700-3.

⁴Categories A, B, 1900-2;

Categories C, D, 1900-3.

⁵Categories A, B, C 1500-5; Category D, 1700-5.

⁶Categories A, B, C, D 1000-4.

NAME ALTERNATE MINIMUMS

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

NA when local weather not available.

SALUDA, VA

HUMMEL FLD (W75).....**RNAV (GPS) Rwy 1**
NA when local weather not available.
Categories A, B, 1100-3.

SOUTH BOSTON, VA

WILLIAM M TUCK (W78).....**RNAV (GPS) Rwy 1**
VOR-A¹

NA when local weather not available.

¹Category C 800-2¾.

SOUTH HILL, VA

MECKLENBURG-
BRUNSWICK RGNL (AVC).....**LOC Rwy 1**
NA when AVC FBO closed.

STAFFORD, VA

STAFFORD
RGNL (RMN).....**ILS or LOC Rwy 33¹**
RNAV (GPS) Rwy 33²

NA when local weather not available.

¹LOC, Category D, 900-2¾.

²Category D, 900-2¾.

STAUNTON/WAYNESBORO/

HARRISONBURG, VA
SHENANDOAH VALLEY
RGNL (SHD).....**ILS or LOC Rwy 5¹**
RNAV (GPS) Rwy 5²
RNAV (GPS) Rwy 23²

NA when local weather not available.

¹LOC, Category D, 900-2¾.

²Category D, 900-2¾.

STEVENSVILLE, MD

BAY BRIDGE (W29).....**RNAV (GPS) Rwy 29**
NA when local weather not available.

SUFFOLK, VA

SUFFOLK
EXEC (SFQ).....**RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 25

NA when local weather not available.

TAPPAHANNOCK, VA

TAPPAHANNOCK/
ESSEX COUNTY (XSA).....**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28

NA when local weather not available.

NAME ALTERNATE MINIMUMS

WAKEFIELD, VA

WAKEFIELD

MUNI (AKQ).....RNAV (GPS) Rwy 20

Categories A, B, C, D, 1100-3.

WALLOPS ISLAND, VA

WALLOPS FLIGHT

FACILITY (WAL).....RNAV (GPS) Rwy 4¹

RNAV (GPS) Rwy 10¹

RNAV (GPS) Rwy 17¹

RNAV (GPS) Rwy 22¹

RNAV (GPS) Rwy 28¹

RNAV (GPS) Rwy 35¹

VOR/DME or TACAN Rwy 10²

NA when local weather not available.

¹Category D, 900-2½.

²Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2½.

WARRENTON, VA

WARRENTON/

FAUQUIER (HWY).....RNAV (GPS) Rwy 15

RNAV (GPS) Rwy 33

VOR Rwy 15¹

NA when local weather not available.

¹Category D 800-2½.

WASHINGTON, DC

MANASSAS RGNL/HARRY P DAVIS

FLD (HEF).....ILS or LOC Rwy 16L¹

RNAV (GPS) Rwy 16L²

RNAV (GPS) Rwy 16R²

RNAV (GPS) Rwy 34L²

RNAV (GPS) Rwy 34R²

NA when local weather not available.

¹ILS, Category C, 700-2; Category D, 700-2½.

LOC, Category D, 800-2½.

²Category D, 800-2½.

RONALD REAGAN WASHINGTON

NTL (DCA).....ILS or LOC Rwy 1¹

RNAV (GPS) Rwy 15²

RNAV (GPS) Y Rwy 19³

LDA Y Rwy 19⁴

LDA Z Rwy 19⁵
¹LOC, Category B, 900-2; Category C, 900-2½;

Category D, 900-3.

²Category C, 800-2½; Category D, 900-3.

³Categories A, B, C, D, 800-2½.

⁴Categories A, B, C, D, 1100-3.

⁵Category C, 900-2½; Category D, 900-3.

NAME ALTERNATE MINIMUMS

WASHINGTON, DC (CON'T)

WASHINGTON DULLES

INTL (IAD).....ILS or LOC Rwy 1C¹

ILS or LOC Rwy 1L¹

ILS or LOC Rwy 1R¹

ILS or LOC Rwy 19C¹

ILS or LOC Rwy 19R¹

ILS or LOC/DME Rwy 12²

RNAV (GPS) Rwy 12³

RNAV (GPS) Y Rwy 1C⁴

RNAV (GPS) Y Rwy 1L⁴

RNAV (GPS) Y Rwy 1R⁴

RNAV (GPS) Y Rwy 19R⁴

RNAV (GPS) Y Rwy 19C⁴

RNAV (GPS) Y Rwy 19L⁴

RNAV (GPS) Y Rwy 30⁴

VOR/DME Rwy 12³
¹LOC, Category D, 900-2½.

²LOC, Category D, 800-2½.

³Category D, 800-2½.

⁴Category D, 900-2½.

WEST POINT, VA

MIDDLE PENINSULA

RGNL (FYJ).....RNAV (GPS)-B

RNAV (GPS) Rwy 10

VOR-A

NA when local weather not available.

WESTMINSTER, MD

CARROLL COUNTY RGNL/JACK B POAGE

FLD (DMW).....RNAV (GPS) Rwy 34

NA when local weather not available.

WILLIAMSBURG, VA

WALTRIP WILLIAMSBURG

EXEC AIRPORT (JGG).....RNAV (GPS)-C

VOR-B

NA when local weather not available.

Categories A, B, C, 1100-3.

WILMINGTON, DE

NEW CASTLE (ILG).....ILS or LOC Rwy 1¹²

RNAV (GPS) Rwy 1³

RNAV (GPS) Rwy 9³

RNAV (GPS) Rwy 19³

RNAV (GPS) Rwy 27³

VOR Rwy 9⁴

VOR Rwy 27³

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 800-2½.

³Category D, 800-2½.

⁴Category C, D, 800-2½.

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NAME

ALTERNATE MINIMUMS

NAME

ALTERNATE MINIMUMS

WINCHESTER, VA

WINCHESTER
RGNL (OKV).....**RNAV (GPS) Rwy 14¹**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.

¹Category D, 800-2½.

WISE, VA

LONESOME PINE (LNP).....**RNAV (GPS) Rwy 6¹**
RNAV (GPS) Rwy 24²

NA when local weather not available.

¹Category D, 900-3.

²Category D, 900-2¾.

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