

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.

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	
US Military (USA/USN/USAF)	See Service Regulations	

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 24**¹²
RNAV (GPS) Rwy 6¹³
RNAV (GPS) Rwy 24³

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

BALTIMORE, MD

BALTIMORE-WASHINGTON INTL THURGOOD
MARSHALL (BWI).....**ILS or LOC Rwy 10**¹
ILS or LOC Rwy 15R²
ILS or LOC Rwy 28¹
ILS or LOC Rwy 33L²
RNAV (GPS) Y Rwy 10³
RNAV (GPS) Y Rwy 15R³
RNAV (GPS) Y Rwy 28³
RNAV (GPS) Y Rwy 33L³

- ¹LOC, Category D, 800-2½.
²ILS, LOC, Category D, 800-2½.
³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

BALTIMORE, MD (CON'T)

MARTIN STATE (MTN).....**LDA Rwy 33**¹²
LOC Rwy 13¹³
RNAV (GPS) Rwy 15²
RNAV (GPS) Rwy 33²
VOR or TACAN Rwy 15⁴

- NA when local weather not available.
¹NA when control tower closed.
²Category D, 800-2½.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.
⁴Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.

BLACKSBURG, VA

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

NA when local weather not available.
Category C, 900-2½.

BROOKNEAL, VA

BROOKNEAL/CAMPBELL
COUNTY (0V4).....**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24

NA when local weather not available.

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NAME ALTERNATE MINIMUMS

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)-A¹

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

CHARLOTTESVILLE, VA

CHARLOTTESVILLE-
ALBEMARLE (CHO).....**ILS or LOC Rwy 3²**
RNAV (GPS) Rwy 3³
RNAV (GPS) Y Rwy 21³
RNAV (GPS) Z Rwy 21¹

NA when local weather not available.
¹Categories, A, B, C, D, 1000-4.
²ILS, Categories A, B, 700-2; Category C, 900-2½;
Category D, 900-2¾. LOC, Category C, 900-2½;
Category D, 900-2¾.
³Category C, 900-2½; Category D, 900-2¾.

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.

CLARKSVILLE, VA

LAKE COUNTRY
REGIONAL (W63).....**RNAV (GPS)-A**
RNAV (GPS)-B

NA when local weather not available.

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).....**LOC Rwy 4¹**
NDB RWY 4¹
RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 22²
VOR-A²³

¹NA when FBO closed.
²NA when local weather not available.
³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

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, 800-2¾; Category D, 800-2½.

DUBLIN, VA

NEW RIVER
VALLEY (PSK).....**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
VOR/DME Rwy 6

NA when local weather not available.
Category D, 800-2¾.

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.

FARMVILLE, VA

FARMVILLE
RGNL (FVX).....**RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21

NA when local weather not available.

FELKER AAF (KFAF)

FORT EUSTIS, VA.....**RNAV (GPS) Rwy 14**
COPTER RNAV (GPS) Rwy 14

NA when control tower closed.

NAME ALTERNATE MINIMUMS

FORT MEADE (ODENTON), MD

TIPTON (FME).....RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.
Category B, 900-2.

FRANKLIN, VA

FRANKLIN
RGNL (FKN).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27

NA when local weather not available.

FREDERICK, MD

FREDERICK
MUNI (FDK).....ILS or LOC Rwy 23¹²³
RNAV (GPS) Rwy 5¹
RNAV (GPS) Y Rwy 23⁴
RNAV (GPS) Z Rwy 23⁵

¹NA when local weather not available.

²NA when tower closed.

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

⁴Category D, 800-2½.

⁵Category 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.

FRONT ROYAL, VA

FRONT ROYAL-WARREN
COUNTY (FRR).....RNAV (GPS)-A
NA when local weather not available.
Categories A, B, 1200-2.

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.
Category D, 800-2½.

GEORGETOWN, DE

DELAWARE
COASTAL (GED).....RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR Rwy 22

NA when local weather not available.

NAME ALTERNATE MINIMUMS

HAGERSTOWN, MD

HAGERSTOWN RGNL/RICHARD A
HENSON FLD (HGR).....ILS or LOC Rwy 9¹²
ILS or LOC Rwy 27¹³
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
VOR Rwy 9

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 700-2.

³ILS, Categories A, B, C, D, 700-2.

HOT SPRINGS, VA

INGALLS FLD (HSP).....RNAV (GPS) Rwy 7¹
RNAV (GPS) Rwy 25²

NA when local weather not available.

¹Categories A, B, 1000-2; Category C, 1000-2¾,
Category D, 1000-3.

²Category C, 800-2¼; Category D, 800-2½.

JONESVILLE, VA

LEE COUNTY (0VG).....RNAV (GPS) Rwy 7¹
RNAV (GPS) Rwy 25²

NA when local weather not available.

¹Category C, 1200-3.

²Categories A, B, 900-2; Category C, 1200-3.

KENBRIDGE, VA

LUNENBURG
COUNTY (W31).....RNAV (GPS)-A
RNAV (GPS)-B¹

NA when local weather not available.

¹Categories A, B, 1100-3.

LAWRENCEVILLE, VA

BRUNSWICK COUNTY (LVL).....RNAV (GPS)-A
RNAV (GPS)-B

NA when local weather not available.

Categories A, B, 1100-3.

LEESBURG, VA

LEESBURG
EXEC (JYO).....RNAV (GPS) Rwy 17
NA when local weather not available.
Category D, 1000-3.

LEONARDTOWN, MD

ST MARYS COUNTY
RGNL (2W6).....RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29¹

Category D, 800-2¼.

¹NA when local weather not available.

LOUISA, VA

LOUISA COUNTY/
FREEMAN FLD (LKU).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27

NA 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 35⁵
VOR Rwy 22⁵

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.

⁵Categories A, B, 900-2; Category C, 900-2½,
Category D, 900-2¾.

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**
NA when airport operations closed.

MIDDLETOWN, DE

SUMMIT (EVY).....**NDB-A¹**
RNAV (GPS) Rwy 17
RNAV (GPS) Y Rwy 35
RNAV (GPS) Z Rwy 35

NA when local weather not available.

¹NA when Wilmington control tower closed.

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).....**VOR Rwy 9**
NA when local weather not available.

OCEAN CITY, MD

OCEAN CITY
MUNI (OXB).....**RNAV (GPS) Rwy 2¹**
RNAV (GPS) Rwy 32¹²
VOR-A³

¹NA when local weather not available.

²Category D, 800-2¼.

³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

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

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.

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
VOR/DME-A⁷

¹ILS, LOC, Categories A, B, 900-2;

Category C, 1300-3; Category D, 1700-3.

²Categories A, B, 1600-2; Category C, 1600-3;

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.

⁷Category C, 1300-3; Category D, 1700-3.

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
VOR Rwy 5

NA when local weather not available.

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).....**RNAV (GPS) Rwy 33**
NA when local weather not available.
Category D, 900-2¾.

STAUNTON-WAYNESBORO-

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

WAKEFIELD, VA

WAKEFIELD
MUNI (AKQ).....**RNAV (GPS) Rwy 20**
Categories A, B, C, D, 1100-3.

NAME ALTERNATE MINIMUMS

WALLOPS ISLAND, VA

WALLOPS FLIGHT
FACILITY (WAL).....RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 10²
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 22²
RNAV (GPS) Rwy 28²
RNAV (GPS) Rwy 35²
VOR/DME or TACAN Rwy 10¹
VOR or TACAN Rwy 17²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2¾.

²Category D, 900-2¾.

WARRENTON, VA

WARRENTON/
FAUQUIER (HWY).....RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33
VOR Rwy 15¹

NA when local weather not available.

¹Category D 800-2¼.

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, 700-2¼.

LOC, Category D, 800-2¼.

²Category D, 800-2¼.

RONALD REAGAN WASHINGTON

NTL (DCA).....ILS or LOC Rwy 1¹
LDA Y Rwy 19²
LDA Z Rwy 19³
RNAV (GPS) Rwy 15⁴
RNAV (GPS) RWY 33⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½;

Category D, 900-3; LOC, Category C, 900-2½;

Category D, 900-3.

²LDA, Categories A, B, C, D, 1100-3.

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

⁴Category C, 900-2½; Category D, 900-3.

NAME ALTERNATE MINIMUMS

WASHINGTON, DC (CON'T)

WASHINGTON DULLES
INTL (IAD).....ILS or LOC Rwy 1R¹
ILS or LOC Rwy 19L²
ILS or LOC/DME Rwy 1C¹
ILS or LOC/DME Rwy 1L¹
ILS or LOC/DME Rwy 12¹
ILS or LOC/DME Rwy 19C¹
ILS or LOC/DME Rwy 19R¹
RNAV (GPS) Rwy 1L³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 19R³
RNAV (GPS) Y Rwy 1C³
RNAV (GPS) Y Rwy 1R³
RNAV (GPS) Y Rwy 19C³
RNAV (GPS) Y Rwy 19L³
VOR/DME Rwy 12³

¹LOC, Category D, 800-2½.

²ILS, Categories A, B, C, D, 700-2.

³Category D, 800-2½.

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

WILLIAMSBURG-
JAMESTOWN (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 9³
VOR Rwy 27³

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 800-2¼.

³Category D, 800-2¼.

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.

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS
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WISE, VA

LONESOME
PINE (LNP).....**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24

NA when local weather not available.
Category D, 900-2¾.

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