

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability.

ANA 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 24¹**
RNAV (GPS) Rwy 6²
RNAV (GPS) Rwy 24²

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

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, 800-2¼.
³Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¼.
⁴Category D, 800-2¼.
⁵Categories A, B, 900-2; Category C, 900-2¼; 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, 900-2¼.

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.

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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, 800-2 $\frac{1}{2}$.
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, 900-2 $\frac{1}{2}$; Category D, 900-2 $\frac{3}{4}$.
²Category C, 900-2 $\frac{1}{2}$; Category D, 900-2 $\frac{3}{4}$.
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 REGIONAL (W63).....RNAV (GPS)-A
RNAV (GPS)-B¹
NA when local weather not available.
¹Categories A, B, 1100-3.

CREWE, VA

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

NAME ALTERNATE MINIMUMS

CULPEPER, VA

CULPEPER RGNL (CJR).....LOC Rwy 4
NDB Rwy 4
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR-A¹
NA when local weather not available.
¹Category D, 800-2 $\frac{1}{2}$.

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, 800-2 $\frac{1}{4}$; Category D, 800-2 $\frac{1}{2}$.

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, 800-2 $\frac{1}{4}$.

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.

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FELKER AAF (KFAF)

FORT EUSTIS, VA.....RNAV (GPS) Rwy 14
COPTER RNAV (GPS) Rwy 14
NA when control tower closed.

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 9¹
ILS or LOC Rwy 27¹
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
VOR Rwy 9

NA when local weather not available.
¹NA when control tower closed.

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 (OVG).....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.

LOUISA, VA

LOUISA COUNTY/
FREEMAN FLD (LKU).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
NA when local weather not available.

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, 1000-2¾.
³Categories A, B, 1300-2, Category C, 1300-3.

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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
VOR Rwy 5
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 800-2¼.

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
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.

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TAPPAHANNOCK, VA

TAPPAHANNOCK/
ESSEX COUNTY (XSA).....RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
NA when local weather not available.

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 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.
²LOC, Category D, 800-2¼.
³Category D, 800-2¼.

RONALD REAGAN WASHINGTON

NTL (DCA).....ILS or LOC Rwy 1¹
LDA Y Rwy 19²
LDA Z Rwy 19³
RNAV (GPS) Rwy 15³
RNAV (GPS) Y Rwy 19⁴

¹LOC, Category B, 900-2; Category C, 900-2¾;
Category D, 900-3.
²Categories A, B, C, D, 1100-3.
³Category C, 900-2½; Category D, 900-3.
⁴Categories A, B, C, D, 800-2½.

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, 900-2¾.
²LOC, Category D, 800-2½.
³Category D, 800-2½.
⁴Category D, 900-2¾.

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, 800-2¼.
³Category D, 800-2¼.
⁴Category C, D, 800-2½.

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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 6
	RNAV (GPS) Rwy 24

NA when local weather not available.

Category D, 900-2¾.

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