

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                              | <b>600-2</b>  | <b>800-2</b>           |
| <b>A</b> Non-Standard or restrictions | As indicated below  | As indicated below     |
| Helicopters                           | For the selected approach:<br>Ceiling: 200' above published ceiling<br>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 24<sup>1</sup>**  
**RNAV (GPS) Rwy 6<sup>2</sup>**  
**RNAV (GPS) Rwy 24<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 900-2, Category C, 900-2½,

Category D, 1000-3.

<sup>2</sup>Category C, 800-2½, Category D, 1000-3.

**BALTIMORE, MD**

BALTIMORE-WASHINGTON INTL THURGOOD  
MARSHALL (BWI).....**ILS or LOC Rwy 10<sup>1</sup>**  
**ILS or LOC Rwy 15R<sup>1</sup>**  
**ILS or LOC Rwy 28<sup>1</sup>**  
**ILS or LOC Rwy 33L<sup>1</sup>**  
**RNAV (GPS) Y Rwy 10<sup>2</sup>**  
**RNAV (GPS) Y Rwy 15R<sup>2</sup>**  
**RNAV (GPS) Y Rwy 28<sup>2</sup>**  
**RNAV (GPS) Y Rwy 33L<sup>2</sup>**

<sup>1</sup>LOC, Category D, 800-2½.

<sup>2</sup>Category D, 800-2½.

NAME ALTERNATE MINIMUMS

**BALTIMORE, MD (CON'T)**

MARTIN STATE (MTN).....**ILS or LOC Rwy 33<sup>12</sup>**  
**LOC Rwy 15<sup>13</sup>**  
**RNAV (GPS) Rwy 15<sup>4</sup>**  
**RNAV (GPS) Rwy 33<sup>4</sup>**  
**VOR or TACAN Rwy 15<sup>5</sup>**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category D, 800-2½.

<sup>3</sup>Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2½.

<sup>4</sup>Category D, 800-2½.

<sup>5</sup>Categories 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.

**BLACKSTONE, VA**

ALLAN C PERKINSON/  
BLACKSTONE AAF (BKT).....**NBD-A<sup>1</sup>**  
**RNAV (GPS) Rwy 4**  
**RNAV (GPS) Rwy 22**

NA when local weather not available.

<sup>1</sup>Categories 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 3<sup>1</sup>

RNAV (GPS) Rwy 3<sup>2</sup>

RNAV (GPS) Y Rwy 21<sup>2</sup>

RNAV (GPS) Z Rwy 21<sup>3</sup>

NA when local weather not available.

<sup>1</sup>LOC, Category C, 900-2½; Category D, 900-2¾.

<sup>2</sup>Category C, 900-2½; Category D, 900-2¾.

<sup>3</sup>Categories, A, B, C, D, 1000-4.

**CHASE CITY, VA**

CHASE CITY

MUNI (CXE).....RNAV (GPS) Rwy 18<sup>1</sup>

RNAV (GPS) Rwy 36<sup>2</sup>

NA when local weather not available.

<sup>1</sup>Categories A, B, 1100-3.

<sup>2</sup>Categories 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).....LOC Rwy 4

NDB Rwy 4

RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR-A<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category D, 800-2½.

**CUMBERLAND, MD**

GREATER CUMBERLAND

RGNL (CBE).....LOC/DME Rwy 23<sup>14</sup>

RNAV (GPS) Rwy 5<sup>2</sup>

RNAV (GPS) Rwy 23<sup>3</sup>

NA when local weather not available.

<sup>1</sup>Category A, 1000-2; Category B, 1400-2;

Category C 1500-3, Category D 1600-3.

<sup>2</sup>Category A, 1100-2; Category B, 1400-2;

Category C, 1500-3; Category D, 1600-3.

<sup>3</sup>Category A, 1100-2; Category B, 1400-2;

Category C, 1500-3.

<sup>4</sup>NA 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, 800-2½; 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, 800-2½.

**EASTON, MD**

EASTON/NEWMAM

FLD (ESN).....ILS or LOC Rwy 4<sup>1</sup>

RNAV (GPS) Rwy 4<sup>2</sup>

RNAV (GPS) Rwy 22<sup>2</sup>

<sup>1</sup>ILS, LOC, NA when control tower closed.

<sup>2</sup>NA when local weather not available.



NAME ALTERNATE MINIMUMS

**LURAY, VA**

LURAY CAVERNS (LUA).....RNAV (GPS) Rwy 4<sup>1</sup>  
RNAV (GPS) Rwy 22<sup>2</sup>  
VOR/DME-B<sup>3</sup>

NA when local weather not available.

<sup>1</sup>Categories A, B, 1400-2, Category C, 1400-3.

<sup>2</sup>Categories A, B, 1000-2, Category C, 1000-2½.

<sup>3</sup>Categories A, B, 1300-2, Category C, 1300-3.

**LYNCHBURG, VA**

LYNCHBURG RGNL/PRESTON GLENN  
FLD (LYH).....ILS or LOC Rwy 4<sup>1</sup>  
RNAV (GPS) Rwy 4<sup>2</sup>  
RNAV (GPS) Rwy 17<sup>3</sup>  
RNAV (GPS) Rwy 22<sup>4</sup>  
RNAV (GPS) Rwy 35<sup>3</sup>  
VOR Rwy 22<sup>5</sup>

<sup>1</sup>LOC, Category B, 900-2, Category C, 900-2½,  
Category D, 900-2¾.

<sup>2</sup>Category B, 900-2; Category C, 900-2½;  
Category D, 900-2¾.

<sup>3</sup>Category B, 900-2.

<sup>4</sup>Categories A, B, 1100-2; Categories C, D, 1100-3.

<sup>5</sup>Categories 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 31<sup>1</sup>  
RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31

Category D, 900-2¾.

NA when local weather not available.

<sup>1</sup>NA 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 7<sup>123</sup>  
ILS or LOC Rwy 25<sup>3</sup>  
LOC Rwy 20<sup>14</sup>  
RNAV (GPS) Rwy 2<sup>4</sup>  
RNAV (GPS) Rwy 7<sup>4</sup>  
RNAV (GPS) Rwy 20<sup>4</sup>

<sup>1</sup>NA when control tower closed.

<sup>2</sup>NA when local weather not available.

<sup>3</sup>LOC, Category D, 800-2¾.

<sup>4</sup>Category D, 800-2¾.

**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, 800-2¾.

**NORFOLK**

INTL (ORF).....ILS or LOC Rwy 5<sup>1</sup>  
ILS or LOC Rwy 23<sup>1</sup>  
RNAV (GPS) Rwy 14<sup>2</sup>  
RNAV (GPS) Rwy 32<sup>2</sup>  
RNAV (GPS) Z Rwy 5<sup>2</sup>  
RNAV (GPS) Z Rwy 23<sup>2</sup>  
VOR Rwy 14<sup>2</sup>  
VOR/DME Rwy 32<sup>2</sup>

<sup>1</sup>LOC, Category D, 900-2¾.

<sup>2</sup>Category 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 32<sup>12</sup>  
RNAV (GPS) Rwy 2  
RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32

NA when local weather not available.

<sup>1</sup>Category D, 800-2½.

<sup>2</sup>NA when FBO closed.

**ORANGE, VA**

ORANGE  
COUNTY (OMH).....RNAV (GPS) Rwy 8<sup>1</sup>  
RNAV (GPS) Rwy 26<sup>1</sup>  
VOR/DME-A<sup>2</sup>

NA when local weather not available.

<sup>1</sup>Categories A, B, 900-2.

<sup>2</sup>Categories A, B, 1600-2.

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NAME ALTERNATE MINIMUMS

**PETERSBURG, VA**

TRI CITIES EXEC/DINWIDDIE  
COUNTY (PTB).....**LOC Rwy 5<sup>1</sup>**  
**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 23**  
**VOR Rwy 23**

NA when local weather not available.

<sup>1</sup>NA 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 16<sup>1</sup>**  
**RNAV (GPS) Rwy 16**  
**RNAV (GPS) Rwy 34<sup>1</sup>**  
**VOR Rwy 16**

Category D, 900-2¾.

<sup>1</sup>NA when local weather not available.

**ROANOKE, VA**

ROANOKE/BLACKSBURG RGNL  
(WOODRUM FLD) (ROA).....**ILS or LOC Rwy 34<sup>1</sup>**  
**LDA Y Rwy 6<sup>2</sup>**  
**RNAV (GPS) Y Rwy 6<sup>3</sup>**  
**RNAV (GPS) Y Rwy 24<sup>4</sup>**  
**RNAV (GPS) Y Rwy 34<sup>5</sup>**  
**RNAV (RNP) Z Rwy 34<sup>6</sup>**

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

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

<sup>3</sup>Categories A, B, 900-2; Category C, 1300-3; Category D, 1700-3.

<sup>4</sup>Categories A, B, 1900-2;

Categories C, D, 1900-3.

<sup>5</sup>Categories A, B, C 1500-5; Category D, 1700-5.

<sup>6</sup>Categories 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-A<sup>1</sup>**  
NA when local weather not available.  
<sup>1</sup>Category 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 33<sup>1</sup>**  
**RNAV (GPS) Rwy 33<sup>2</sup>**  
NA when local weather not available.  
<sup>1</sup>LOC, Category D, 900-2¾.  
<sup>2</sup>Category D, 900-2¾.

**STAUNTON/WAYNESBORO/**

**HARRISONBURG, VA**  
SHENANDOAH VALLEY  
RGNL (SHD).....**ILS or LOC Rwy 5<sup>1</sup>**  
**RNAV (GPS) Rwy 5<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>LOC, Category D, 900-2¾.

<sup>2</sup>Category 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 4<sup>1</sup>

RNAV (GPS) Rwy 10<sup>1</sup>

RNAV (GPS) Rwy 17<sup>1</sup>

RNAV (GPS) Rwy 22<sup>1</sup>

RNAV (GPS) Rwy 28<sup>1</sup>

RNAV (GPS) Rwy 35<sup>1</sup>

VOR/DME or TACAN Rwy 10<sup>2</sup>

NA when local weather not available.

<sup>1</sup>Category D, 900-2¼.

<sup>2</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¼.

**WARRENTON, VA**

WARRENTON/

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

RNAV (GPS) Rwy 33

VOR Rwy 15<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category D 800-2¼.

**WASHINGTON, DC**

MANASSAS RGNL/HARRY P DAVIS

FLD (HEF).....ILS or LOC Rwy 16L<sup>1</sup>

RNAV (GPS) Rwy 16L<sup>2</sup>

RNAV (GPS) Rwy 16R<sup>2</sup>

RNAV (GPS) Rwy 34L<sup>2</sup>

RNAV (GPS) Rwy 34R<sup>2</sup>

NA when local weather not available.

<sup>1</sup>ILS, Category C, 700-2; Category D, 700-2¼.

LOC, Category D, 800-2¼.

<sup>2</sup>Category D, 800-2¼.

RONALD REAGAN WASHINGTON

NTL (DCA).....ILS or LOC Rwy 1<sup>1</sup>

LDA Y Rwy 19<sup>2</sup>

LDA Z Rwy 19<sup>3</sup>

RNAV (GPS) Rwy 15<sup>3</sup>

RNAV (GPS) Y Rwy 19<sup>4</sup>

<sup>1</sup>LOC, Category B, 900-2; Category C, 900-2¼;

Category D, 900-3.

<sup>2</sup>Categories A, B, C, D, 1100-3.

<sup>3</sup>Category C, 900-2½; Category D, 900-3.

<sup>4</sup>Categories A, B, C, D, 800-2½.

NAME

ALTERNATE MINIMUMS

**WASHINGTON, DC (CON'T)**

WASHINGTON DULLES

INTL (IAD).....ILS or LOC Rwy 1C<sup>1</sup>

ILS or LOC Rwy 1L<sup>1</sup>

ILS or LOC Rwy 1R<sup>1</sup>

ILS or LOC Rwy 19C<sup>1</sup>

ILS or LOC Rwy 19R<sup>1</sup>

ILS or LOC/DME Rwy 12<sup>2</sup>

RNAV (GPS) Rwy 12<sup>3</sup>

RNAV (GPS) Y Rwy 1C<sup>4</sup>

RNAV (GPS) Y Rwy 1L<sup>4</sup>

RNAV (GPS) Y Rwy 1R<sup>4</sup>

RNAV (GPS) Y Rwy 19R<sup>4</sup>

RNAV (GPS) Y Rwy 19C<sup>4</sup>

RNAV (GPS) Y Rwy 19L<sup>4</sup>

RNAV (GPS) Y Rwy 30<sup>4</sup>

VOR/DME Rwy 12<sup>3</sup>

<sup>1</sup>LOC, Category D, 900-2¼.

<sup>2</sup>LOC, Category D, 800-2½.

<sup>3</sup>Category D, 800-2½.

<sup>4</sup>Category D, 900-2¼.

**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 1<sup>12</sup>

RNAV (GPS) Rwy 1<sup>3</sup>

RNAV (GPS) Rwy 9<sup>3</sup>

RNAV (GPS) Rwy 19<sup>3</sup>

RNAV (GPS) Rwy 27<sup>3</sup>

VOR Rwy 9<sup>4</sup>

VOR Rwy 27<sup>3</sup>

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category D, 800-2¼.

<sup>3</sup>Category D, 800-2¼.

<sup>4</sup>Category C, D, 800-2½.

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NAME

ALTERNATE MINIMUMS

NAME

ALTERNATE MINIMUMS

**WINCHESTER, VA**

WINCHESTER  
RGNL (OKV).....**RNAV (GPS) Rwy 14<sup>1</sup>**  
**RNAV (GPS) Rwy 32**  
**VOR/DME-A**

NA when local weather not available.  
<sup>1</sup>Category 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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