

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability. **Δ**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 **Δ**NA designation are not listed in this section. **Δ** 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
Δ 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

ALTURAS, CA
ALTURAS
MUNI (AAT).....RNAV (GPS) Rwy 31
Category B, 900-2.

ARCATA/EUREKA, CA
CALIFORNIA REDWOOD COAST-HUMBOLDT
COUNTY (ACV).....RNAV (GPS) Rwy 1¹
RNAV (GPS) Rwy 32²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¼.
²Category D, 800-2¼.

ATWATER, CA
CASTLE (MER).....ILS or LOC Rwy 31
NA when local weather not available.
NA when control tower closed.

AUBURN, CA
AUBURN MUNI (AUN).....RNAV (GPS) Rwy 7
Category B, 900-2.

BISHOP, CA
BISHOP (BIH).....LDA Rwy 17¹
RNAV (GPS) Y Rwy 12²
RNAV (GPS) Z Rwy 13³

¹Categories A, B, 2300-2; Categories C, D, 2300-3.
²Categories A, B 2500-2; Category C, 2500-3.
³Categories A, B, 2300-2; Category C, 2300-3.

NAME ALTERNATE MINIMUMS

BYRON, CA
BYRON (C83).....RNAV (GPS) Rwy 30
Category D, 800-2½.

CHESTER, CA
ROGERS FLD (O05).....RNAV (GPS) Rwy 34
Category A, 1000-2; Category B, 1200-2; Category
C, 1200-3.

CHICO, CA
CHICO RGNL (CIC).....ILS or LOC Rwy 13L
RNAV (GPS) Rwy 13L
NA when local weather not available.

COALINGA, CA
NEW COALINGA MUNI
MUNI (C80).....RNAV (GPS) Rwy 30
NA when local weather not available.
Category C, 800-2¼; Category D, 1100-3.

CONCORD, CA
BUCHANAN
FLD (CCR).....LDA Rwy 19R¹²
RNAV (GPS) Rwy 19R³
VOR Rwy 19R³

¹NA when control tower closed.
²Category C, 1000-2¼; Category D, 1300-3.
³Categories A, B, 1000-2; Category C, 1000-3;
Category D, 1300-3.

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NAME ALTERNATE MINIMUMS

COLUMBIA, CA

COLUMBIA (D22).....RNAV (GPS) Rwy 35
NA when local weather not available.
Categories A, B, 1100-2; Category C, 1100-3.

CRESCENT CITY, CA

JACK MC NAMARA
FLD (CEC).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 36
VOR Rwy 12
VOR/DME Rwy 12
VOR/DME Rwy 36
NA when local weather not available.

DAVIS, CA

UNIVERSITY (EDU).....RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
NA when local weather not available.

FRESNO, CA

FRESNO CHANDLER
EXEC (FCH).....RNAV (GPS) Rwy 12
NA when local weather not available.

FRESNO YOSEMITE

INTL (FAT).....ILS Y or LOC Y Rwy 29R¹
LOC Y Rwy 11L²
TACAN Rwy 11L³
TACAN Rwy 29R²

¹LOC, Category E, 900-2½.

²Category E, 900-2½.

³Category E, 900-2.

GRASS VALLEY, CA

NEVADA
COUNTY (GOO).....RNAV (GPS) Rwy 7
NA when local weather not available.
Category D, 800-2½.

HAYWARD, CA

HAYWARD EXEC (HWD).....LOC Rwy 28L¹
RNAV (GPS) Rwy 28L
NA when local weather not available.
Category D, 900-2½.
¹NA when control tower closed.

HOLLISTER, CA

HOLLISTER MUNI (CVH).....RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 31²
NA when local weather not available.
¹Categories A, B, C, 900-2½.
²Category C, 800-2½.

LINCOLN, CA

LINCOLN RGNL/KARL
HARDER FLD (LHM).....RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33
NA when local weather not available.

NAME ALTERNATE MINIMUMS

LITTLE RIVER, CA

LITTLE RIVER (LLR).....RNAV (GPS) Rwy 29
Category D, 900-2½.

LIVERMORE, CA

LIVERMORE MUNI (LVK).....ILS Rwy 25R¹²
LOC Rwy 25R³⁴
RNAV (GPS) Rwy 25R⁵

¹NA when local weather not available.

²NA when control tower closed.

³NA when tower closed.

⁴Categories A, B, 1600-2; Categories C, D, 1600-3.

⁵Category D, 1400-3.

MAMMOTH LAKES, CA

MAMMOTH
YOSEMITE (MMH).....RNAV (GPS) Rwy 27
Categories A, B, 1300-2; Category C, 1300-3.

MADERA, CA

MADERA MUNI (MAE).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30
NA when local weather not available.

MARIPOSA, CA

MARIPOSA-
YOSEMITE (MPI).....RNAV (GPS)-A
NA when local weather not available.
Category A, 1900-2; Category B, 2000-2.

MARYSVILLE, CA

YUBA COUNTY (MYV).....RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
NA when local weather not available.

MODESTO, CA

MODESTO CITY-COUNTY-HARRY SHAM
FLD (MOD).....ILS or LOC Rwy 28R¹²
RNAV (GPS) Rwy 28R³
¹NA when control tower closed.
²LOC, Category D, 800-2½.
³Category D, 800-2½.

MONTEREY, CA

MONTEREY
RGNL (MRY).....ILS or LOC Rwy 10R¹²
LOC Rwy 28L¹³
RNAV (GPS) Rwy 10R⁴
RNAV (GPS) Y Rwy 28L⁵
RNAV (RNP) Z Rwy 28L⁶

¹NA when control tower closed.

²LOC, Category C, 1100-3; Category D, NA.

³Categories A, B, 1700-2, Categories C, D, 1700-3.

⁴Category C, 1100-3; Category D, 800-2½.

⁵Categories A, B, 900-2, Category C, 1100-3.

⁶Categories A, B, C, 1000-3.

NAME ALTERNATE MINIMUMS

MOUNTAIN VIEW, CA

MOFFET FEDERAL

AIRFIELD (NUQ).....**ILS or LOC Rwy 32R**¹²
LOC Rwy 14L¹³⁶
RNAV (GPS) Rwy 14L⁴
RNAV (GPS) Rwy 14R⁴
RNAV (GPS) Rwy 32L⁴
RNAV (GPS) Rwy 32R³⁶
TACAN Rwy 32L¹⁵
TACAN Rwy 32R¹⁵

¹NA when tower closed.

²LOC, Category D, 800-2½; Category E, 1000-3.

³Category D, 800-2½.

⁴Category D, 800-2½.

⁵Category D, 800-2½; Category E, 1000-3.

⁶NA when local weather not available.

NAPA, CA

NAPA

COUNTY (APC).....**ILS or LOC Z Rwy 1L**¹²
RNAV (GPS) Rwy 6³
RNAV (GPS) Rwy 19R⁴
RNAV (GPS) Y Rwy 1L⁵
VOR Rwy 6⁵

NA when local weather not available.

¹NA when control tower closed.

²LOC, Categories C, D, 1300-3.

³Categories A, B, 1400-2;

Categories C, D, 1400-3.

⁴Categories C, D, 1300-3.

⁵Categories A, B, C, D, 1300-5.

⁶Categories A, B, 1100-2; Categories C, D, 1300-3.

NOVATO, CA

GNOSS FLD (DVO).....

RNAV (GPS) Rwy 13

NA when local weather not available.

Categories A, B, 1100-2.

OAKLAND, CA

OAKLAND INTL (OAK).....**ILS or LOC Rwy 12**¹
ILS or LOC Rwy 28R²
ILS or LOC Rwy 30²
RNAV (GPS) Rwy 10L³
RNAV (GPS) Rwy 10R³
RNAV (GPS) Y Rwy 12³
RNAV (GPS) Y Rwy 28L³
RNAV (GPS) Y Rwy 28R³
RNAV (GPS) Y Rwy 30³
VOR Rwy 10R³

¹ILS, Category C, 700-2; Category D, 1400-3;

LOC, Category D, 1400-3.

²LOC, Category D, 1400-3.

³Category D, 1400-3.

PALO ALTO, CA

PALO ALTO (PAO).....

RNAV (GPS) Rwy 31

NA when control tower closed.

NAME

ALTERNATE MINIMUMS

PETALUMA, CA

PETALUMA MUNI (O69).....**RNAV (GPS) Rwy 29**

NA when local weather not available.

Category B, 900-2.

PLACERVILLE, CA

PLACERVILLE (PVF).....**RNAV (GPS) Rwy 5**

NA when local weather not available.

Category B, 900-2.

PORTERVILLE, CA

PORTERVILLE MUNI (PTV).....**VOR-A**

NA when local weather not available.

RED BLUFF, CA

RED BLUFF

MUNI (RBL).....**RNAV (GPS) Rwy 15**¹
RNAV (GPS) Rwy 33
VOR Rwy 33
VOR/DME Rwy 15¹

NA when local weather not available.

¹Category D, 800-2½.

REDDING, CA

REDDING

RGNL (RDD).....**ILS or LOC Rwy 34**¹²
LOC BC Rwy 16¹³
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34³
VOR Rwy 34⁴

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 900-2¾; Category E, 900-3.

³Category D, 900-2¾.

⁴Categories A, B, 1200-2; Categories C, D, 1200-3.

SACRAMENTO, CA

SACRAMENTO EXE (SAC).....**ILS or LOC Rwy 2**¹²
RNAV (GPS) Rwy 2³
VOR Rwy 2³

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 800-2½.

³Category D, 800-2½.

SACRAMENTO

INTL (SMF).....**ILS or LOC Rwy 17L**¹
RNAV (GPS) Y Rwy 17L²
RNAV (GPS) Y Rwy 35R²

¹LOC, Category D, 900-2¾.

²Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

SACRAMENTO, CA (CON'T)

SACRAMENTO

MATHER (MHR).....ILS Y or Y LOC Rwy 22L¹²

ILS Z or Z LOC Rwy 22L¹²

RNAV (GPS) Rwy 4R

RNAV (GPS) Rwy 22L³

RNAV (GPS) Rwy 22R³

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 800-2¼; Category E, 800-2½.

³Category D, 800-2¼.

SALINAS, CA

SALINAS MUNI (SNS).....ILS Rwy 31¹

LOC Rwy 31¹²

RNAV (GPS) Rwy 8³

RNAV (GPS) Rwy 13²

RNAV (GPS) Y Rwy 31²

RNAV (GPS) Z Rwy 31

VOR Rwy 13⁴

NA when local weather not available.

¹NA when control tower closed.

²Category D, 1600-3.

³Category D, 1500-3.

⁴Category D, 900-2¼.

SAN ANDREAS, CA

CALAVERAS COUNTY/MAURY

RASMUSSEN FLD (CPU).....RNAV (GPS) Rwy 31

Category C, 1100-3.

SAN CARLOS, CA

SAN CARLOS (SQL).....RNAV (GPS) Y Rwy 30¹

RNAV (GPS) Z Rwy 30²

NA when local weather not available.

¹Categories A, B, 1300-2.

²Categories A, B, 900-2.

NAME ALTERNATE

SAN FRANCISCO, CA

SAN FRANCISCO

INTL (SFO).....ILS or LOC Rwy 19L¹

ILS or LOC Rwy 28L²

ILS or LOC Rwy 28R³

RNAV (GPS) Rwy 10L⁴

RNAV (GPS) Rwy 19L⁵

RNAV (GPS) Rwy 28L⁶

RNAV (GPS) Y Rwy 10R⁷

RNAV (GPS) Y Rwy 19R⁸

RNAV (GPS) Z Rwy 28R⁹

RNAV (RNP) Z Rwy 10R^a

¹ILS, Categories A, B, C, D, 800-2;

LOC, Categories A, B, 1800-2;

Categories C, D, 1800-3.

²ILS, Categories A, B, C, D, 800-2¼;

LOC, Category A, 900-2; Category B, 1000-2;

Category C, 1600-3; Category D, 900-2½.

³LOC, Category B, 1000-2; Category C, 1600-3.

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

⁵Categories A, B, 1100-2; Categories C, D, 1100-

2½.

⁶Categories A, B, 1100-2; Category C, 1600-3;

Category D, 1100-2½.

⁷Categories A, B, 1200-2; Category C, D, 1200-3.

⁸Categories A, B, C, D, 1400-4.

⁹Category B, 1100-2; Category C, 1700-3.

^aCategories A, B, C, D, 1100-4.

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE

INTL (SJC).....ILS or LOC Rwy 12R

ILS or LOC Rwy 30L

NA when control tower closed.

SAN MARTIN, CA

SAN MARTIN (E16).....RNAV (GPS) Rwy 32

NA when local weather not available.

Categories A, B, 1100-2.

SANTA ROSA, CA

CHARLES M SCHULZ/SONOMA

COUNTY (STS).....ILS or LOC Rwy 32¹²³

RNAV (GPS) Rwy 2⁴

RNAV (GPS) Rwy 14⁴

RNAV (GPS) Rwy 32¹⁴

¹NA when local weather not available.

²NA when control tower closed.

³LOC, Category C, 1000-3; Category D, 1300-3.

⁴Category C, 1000-3; Category D, 1300-3.

STOCKTON, CA

STOCKTON

METRO (SCK).....ILS or LOC Rwy 29R

NA when control tower closed.

