

AIRPORT DIAGRAM
21224

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)
21224

D-ATIS
113.7 115.8 118.85
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8
CLNC DEL
118.2
CPDLC
PDC



ASSC in use. Operate transponders with altitude reporting mode and ADS-B (if equipped) enabled on all airport surfaces.

Runway Status Lights in Operation.

RWY 01L-19R
PCN 90 F/B/X/T
S-75, D-200, 2D-400, 2D/2D2-877
RWY 01R-19L
PCN 100 F/B/X/T
S-75, D-200, 2D-400, 2D/2D2-877
RWYS 10L-28R, RWY 10R-28L
PCN 80 F/B/X/T
S-75, D-200, 2D-400, 2D/2D2-877

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

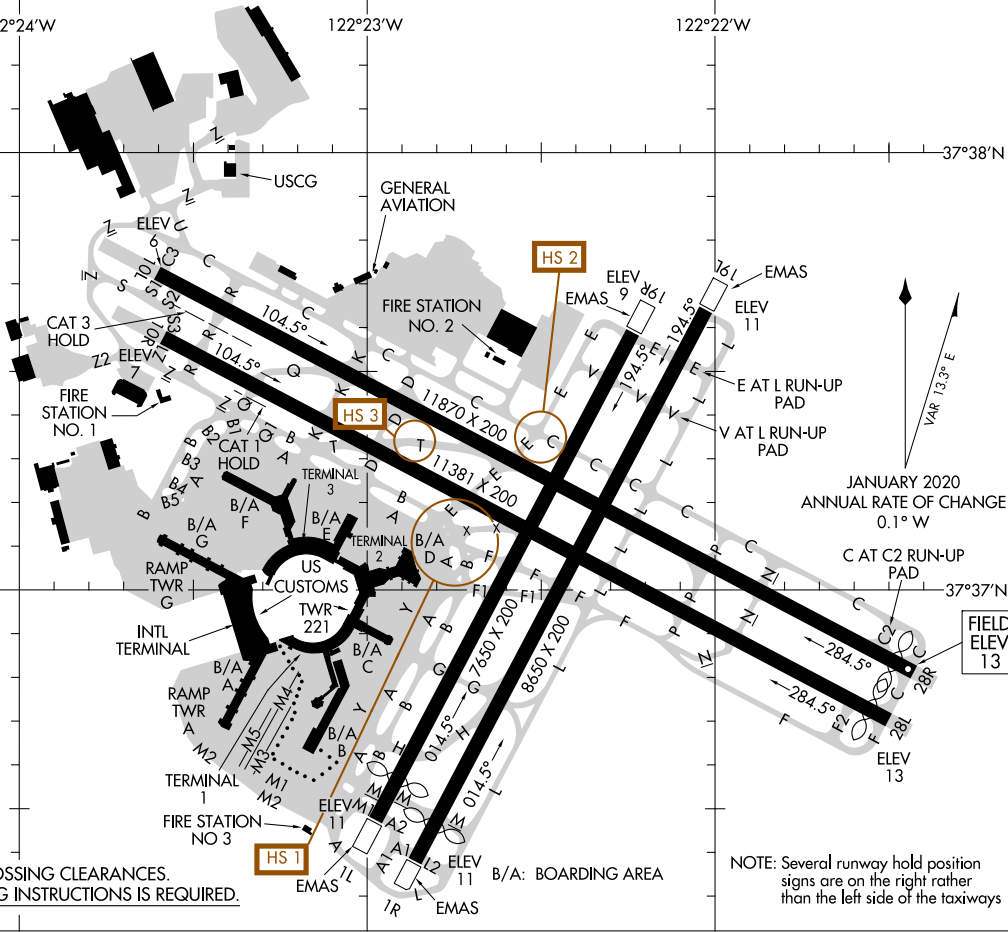
122°24'W

122°23'W

122°22'W

37°38'N

37°37'N



AIRPORT DIAGRAM
21224

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA
21224

AL-375 (FAA)

NOTE: Several runway hold position signs are on the right rather than the left side of the taxiways

CITY THREE DEPARTURE (RNAV)
(CIITY3.CIITY) 20AUG15

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10L: Climb heading 104° to 520, then direct ORYAN, then on track 102° to SAHEY, then on track 101° to cross CIITY at or above 5000. Thence. . .

TAKEOFF RUNWAY 10R: Climb heading 104° to 520, then direct URRSA, then on track 101° to SAHEY, then on track 101° to cross CIITY at or above 5000. Thence. . .

TAKEOFF RUNWAYS 19L/19R: Climb heading 194° to 520, then left turn direct to cross CIITY at or above 5000. Thence. . .

. . . on (transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (CIITY3.DEDHD)

GRTFL TRANSITION (CIITY3.GRTFL)

MOGEE TRANSITION (CIITY3.MOGEE)

ORRCA TRANSITION (CIITY3.ORRCA)

SYRAH TRANSITION (CIITY3.SYRAH)

TIPRE TRANSITION (CIITY3.TIPRE)

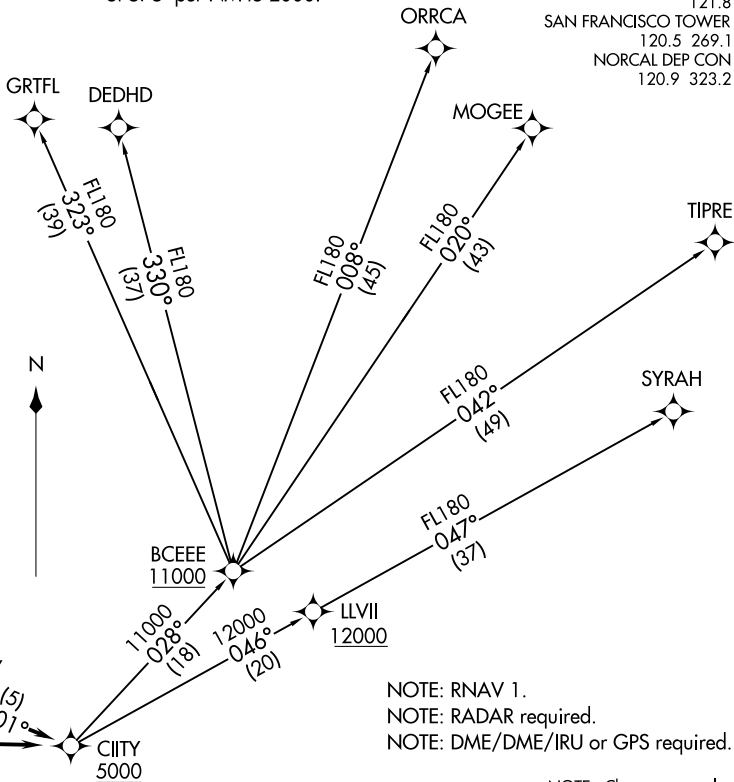
TAKEOFF MINIMUMS

Rwys 10L/R: Standard with minimum climb of 500' per NM to 520.

Rwys 19L/R: Standard with minimum climb of 575' per NM to 2000.

**TOP ALTITUDE:
FL190**

D-ATIS 113.7 115.8 118.85
CLNC DEL 118.2
CPDLC
GND CON 121.8
SAN FRANCISCO TOWER 120.5 269.1
NORCAL DEP CON 120.9 323.2



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

NOTE: Chart not to scale.

(CIITY3.CIITY) 17341
CITY THREE DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

GAP SEVEN DEPARTURE

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

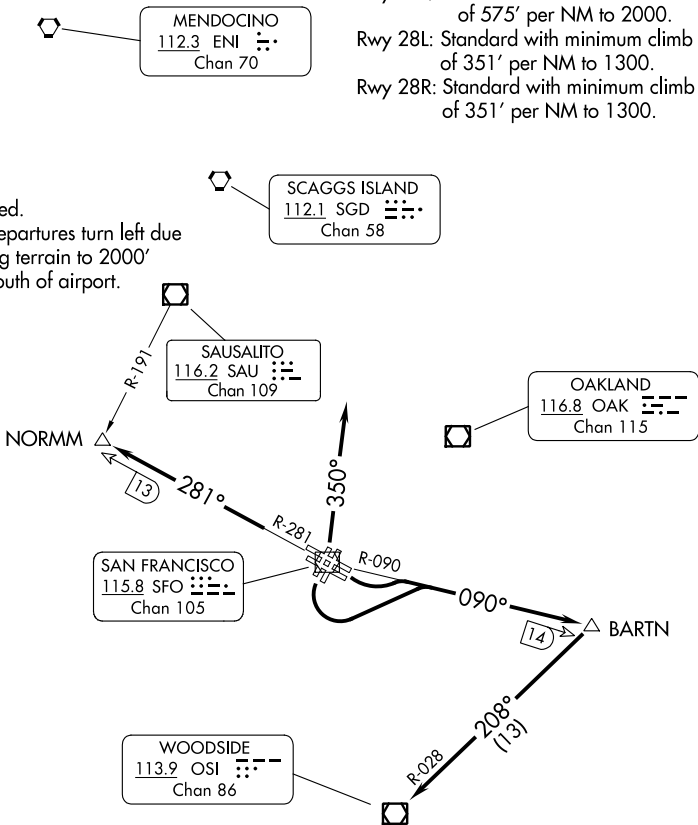
D-ATIS
113.7 115.8 118.85
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2 (NW-E)
135.1 307.2 (SE-W)

TAKEOFF MINIMUMS

Rwy 19L/R: Standard with minimum climb of 575' per NM to 2000.
Rwy 28L: Standard with minimum climb of 351' per NM to 1300.
Rwy 28R: Standard with minimum climb of 351' per NM to 1300.

NOTE: RADAR required.

NOTE: Rwsy 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb on SFO R-350 (or as assigned) for vectors to assigned route/fix. Thence

TAKEOFF RUNWAYS 10L/R and 19L/R: Turn left and climb on the SFO R-090 and OSI R-028 to OSI VOR/DME; expect vector to assigned route/fix after OSI VOR/DME. Thence

TAKEOFF RUNWAYS 28L/R: Climb on the SFO VOR/DME R-281 to NORMM INT/ SFO VOR/DME 13 DME; expect vector to assigned route/fix after NORMM INT. Thence

. . . .expect further clearance to filed altitude 10 minutes after departure.

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

GAP SEVEN DEPARTURE

GNNRR THREE DEPARTURE (RNAV)
(GNNRR3.GNNRR) 29DEC22

RNAV 1 - GPS.
GPS required.

**TOP ALTITUDE:
3000**

TAKEOFF MINIMUMS

Rwy 28L: Standard with minimum climb of 500' per NM to 513
then 380' per NM to 1400.
Rwy 28R: Standard with minimum climb of 500' per NM to 1300.

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

(GNNRR3.GNNRR) 22363
GNNRR THREE DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ALCOA ▲

5500
*2500
260°
(159)



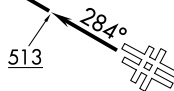
▲ AMAKR

5500
*4200
313°
(183)

▲ STINS

3000
*2500
293°
(115)

GNNRR
2500



▲ BEBOP

5500
*2500
238°
(126)

5500
*2500
217°
(141)

◆ CINNY

▼ DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R: Climb on heading 284° to 513, then direct GNNRR at or above 2500, thence
. . . .on (transition), maintain 3000. Expect filed altitude 10 minutes after departure.

- ALCOA TRANSITION (GNNRR3.ALCOA)
- AMAKR TRANSITION (GNNRR3.AMAKR)
- BEBOP TRANSITION (GNNRR3.BEBOP)
- CINNY TRANSITION (GNNRR3.CINNY)

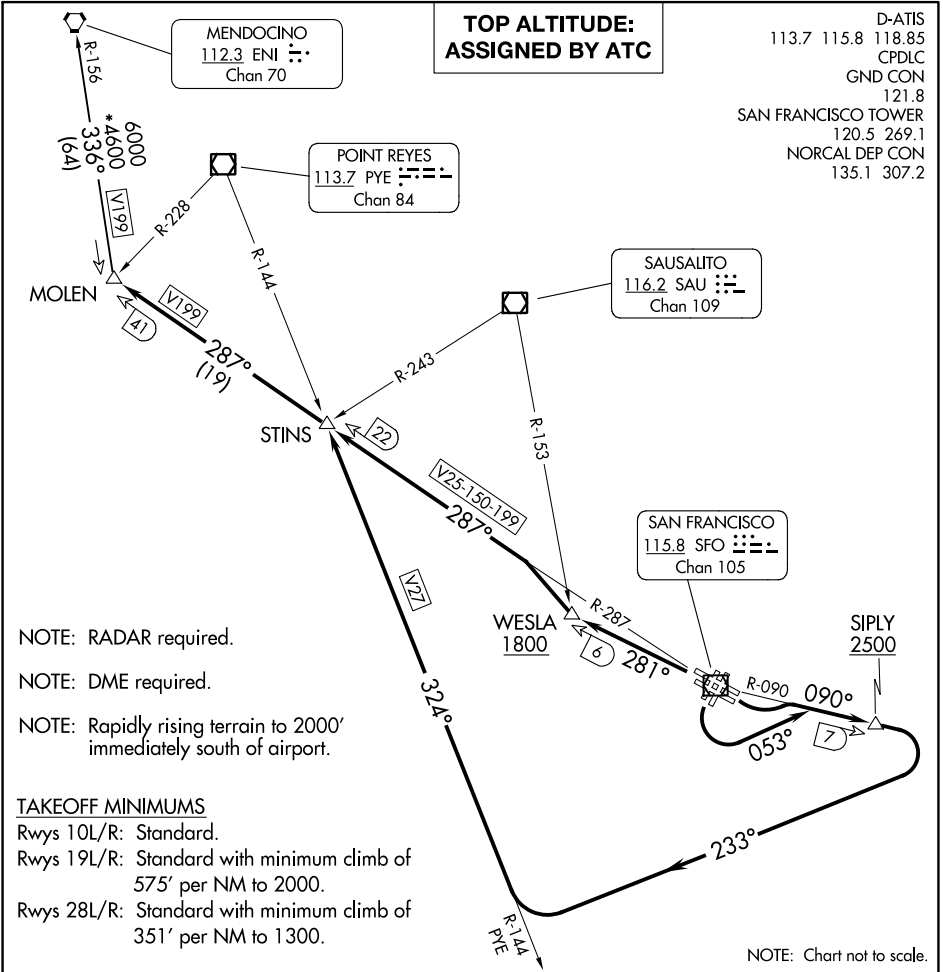
NOTE: Chart not to scale.

(MOLEN9.MOLEN) 23334

MOLEN NINE DEPARTURE

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 10L/R: Climbing left turn to intercept SFO R-090 to cross SIPLY 7 DME FIX at or above 2500, then climbing right turn heading 233° to intercept and proceed on PYE R-144 to STINS INT/SFO 22 DME, then on SFO VOR/DME R-287 to MOLEN INT/SFO 41 DME. Thence

TAKEOFF RUNWAYS 19L/R: Climbing left turn to heading 053° to intercept SFO R-090 to cross SIPLY 7 DME FIX at or above 2500, then climbing right turn heading 233° to intercept and proceed on PYE R-144 to STINS INT/SFO VOR/DME 22 DME, then on SFO VOR/DME R-287 to MOLEN INT/SFO 41 DME. Thence

TAKEOFF RUNWAYS 28 L/R: Climb on SFO VOR/DME R-281 to cross WESLA INT/SFO VOR/DME 6 DME at or above 1800 then climbing right turn to intercept SFO R-287 to MOLEN INT/SFO 41 DME. Thence

. . . . (transition). Expect clearance to filed altitude 10 minutes after departure.

MENDOCINO TRANSITION (MOLEN9.ENI): From over MOLEN INT on ENI R-156 to ENI VORTAC.

MOLEN NINE DEPARTURE

(MOLEN9.MOLEN) 27JAN22

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

(NIITE3.NIITE) 17341

NIITE THREE DEPARTURE (RNAV)

AL-375 (FAA)

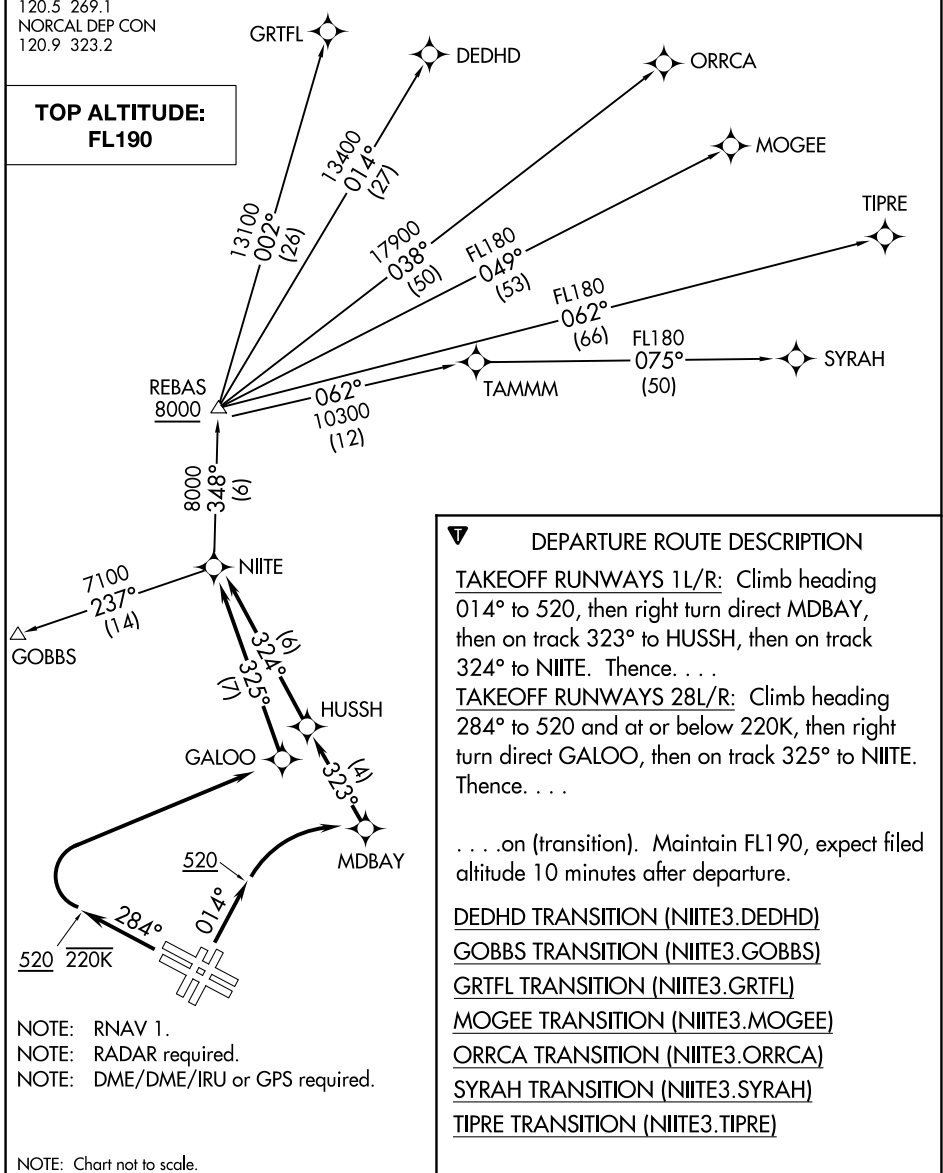
SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

TAKEOFF MINIMUMS

Rwys 1L/R: Standard with a minimum climb of 500' per NM to 520.
Rwy 28L: Standard with minimum climb of 535' per NM to 2100.
Rwy 28R: Standard with minimum climb of 560' per NM to 2100.

**TOP ALTITUDE:
FL190**



NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 014° to 520, then right turn direct MDBAY, then on track 323° to HUSSH, then on track 324° to NIITE. Thence. . .

TAKEOFF RUNWAYS 28L/R: Climb heading 284° to 520 and at or below 220K, then right turn direct GALOO, then on track 325° to NIITE. Thence. . .

. . . on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (NIITE3.DEDHD)
GOBBS TRANSITION (NIITE3.GOBBS)
GRNFL TRANSITION (NIITE3.GRNFL)
MOGEE TRANSITION (NIITE3.MOGEE)
ORRCA TRANSITION (NIITE3.ORRCA)
SYRAH TRANSITION (NIITE3.SYRAH)
TIPRE TRANSITION (NIITE3.TIPRE)

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

NIITE THREE DEPARTURE (RNAV)

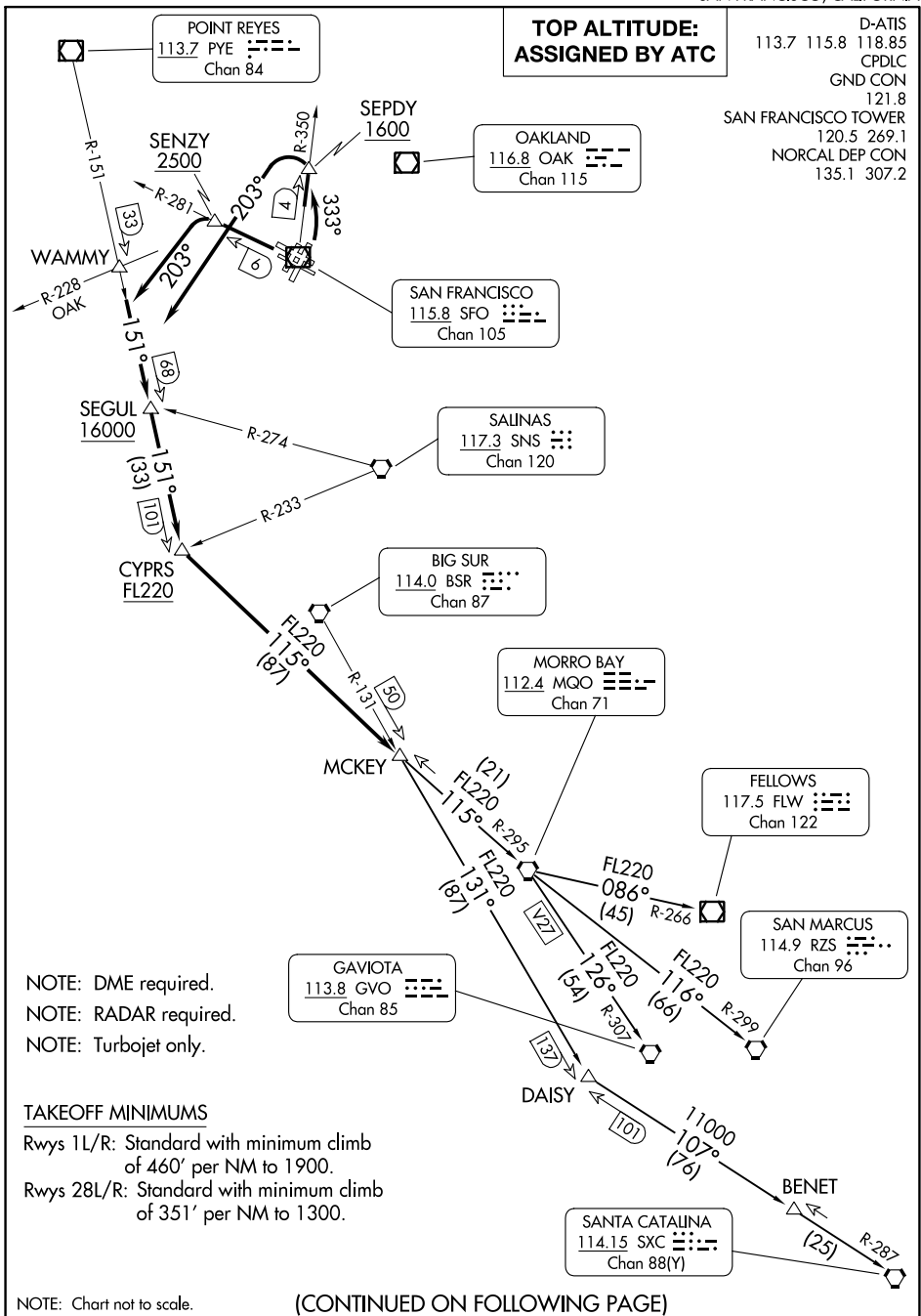
(NIITE3.NIITE) 20AUG15

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

OFFSHORE TWO DEPARTURE

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

NOTE: DME required.
 NOTE: RADAR required.
 NOTE: Turbojet only.

TAKEOFF MINIMUMS
 Rwy 11L/R: Standard with minimum climb of 460' per NM to 1900.
 Rwy 28L/R: Standard with minimum climb of 351' per NM to 1300.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climbing left turn heading 333° to intercept SFO VOR/DME R-350 to cross SEPDY INT/SFO VOR/DME 4 DME at or above 1600. Thence

TAKEOFF RUNWAYS 28L/R: Climb on SFO VOR/DME R-281 to cross SENZY INT/SFO VOR/DME 6 DME at or above 2500. Thence

. . . . climbing left turn heading 203° to intercept PYE R-151 to cross SEGUL INT/PYE 68 DME at or above 16000, then on PYE R-151 to cross CYPRS INT/PYE 101 DME at or above FL220. Then on MQO R-295 to MCKEY INT/MQO 21 DME, then on assigned (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

FELLOWS TRANSITION (OFFSH2.FLW): From over MCKEY INT on MQO R-295 to MQO VORTAC, then on MQO R-086 and FLW R-266 to FLW VOR/DME.

GAVIOTA TRANSITION (OFFSH2.GVO): From over MCKEY INT on MQO R-295 to MQO VORTAC, then on MQO R-126 and GVO R-307 to GVO VORTAC.

SAN MARCUS TRANSITION (OFFSH2.RZS): From over MCKEY INT on MQO R-295 to MQO VORTAC, then on MQO R-116 and RZS R-299 to RZS VORTAC.

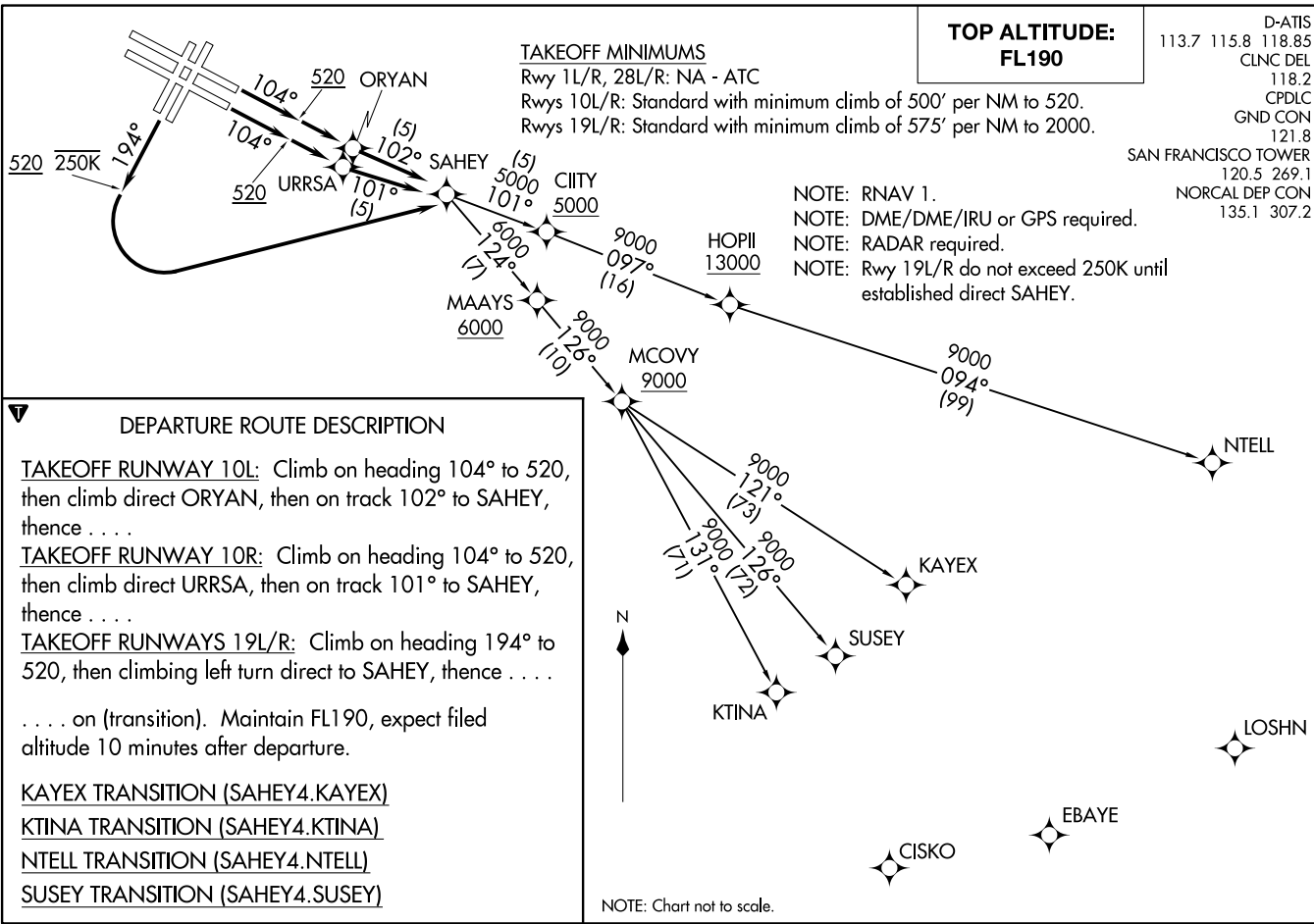
SANTA CATALINA TRANSITION (OFFSH2.SXC): From over MCKEY INT on BSR R-131 to DAISY INT then on SXC R-287 to SXC VORTAC.

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

SAHEY FOUR DEPARTURE (RNAV)
(SAHEY4.SAHEY) 12AUG21

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)



**TOP ALTITUDE:
FL190**

TAKEOFF MINIMUMS

Rwy 1L/R, 28L/R: NA - ATC
Rwys 10L/R: Standard with minimum climb of 500' per NM to 520.
Rwys 19L/R: Standard with minimum climb of 575' per NM to 2000.

D-ATIS 113.7 115.8
CLNC DEL 118.2
CPDLC
GND CON 121.8
SAN FRANCISCO TOWER 120.5 269.1
NORCAL DEP CON 135.1 307.2

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Rwy 19L/R do not exceed 250K until established direct SAHEY.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10L: Climb on heading 104° to 520, then climb direct ORYAN, then on track 102° to SAHEY, thence

TAKEOFF RUNWAY 10R: Climb on heading 104° to 520, then climb direct URRSA, then on track 101° to SAHEY, thence

TAKEOFF RUNWAYS 19L/R: Climb on heading 194° to 520, then climbing left turn direct to SAHEY, thence on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

- KAYEX TRANSITION (SAHEY4.KAYEX)
- KTINA TRANSITION (SAHEY4.KTINA)
- NTELL TRANSITION (SAHEY4.NTELL)
- SUSEY TRANSITION (SAHEY4.SUSEY)

NOTE: Chart not to scale.

(SAHEY4.SAHEY) 21224
SAHEY FOUR DEPARTURE (RNAV)

A1-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SAN FRANCISCO FOUR DEPARTURE

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

**TOP ALTITUDE:
ASSIGNED BY ATC**

RED BLUFF
115.7 RBL :
Chan 104

D-ATIS
113.7 115.8 118.85
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

TAKEOFF MINIMUMS

Rwys 1L/R: Standard.

Rwys 28L/R: Standard with a minimum climb of 351' per NM to 1300.

NOTE: RADAR required.

NOTE: Rwys 1L/R: DME required.

SACRAMENTO
115.2 SAC :
Chan 99

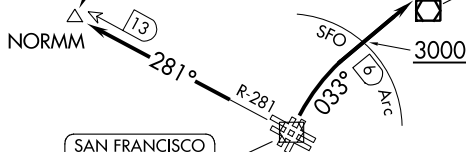
SAUSALITO
116.2 SAU :
Chan 109

CONCORD
117.0 CCR :
Chan 117

LINDEN
114.8 LIN :
Chan 95

OAKLAND
116.8 OAK :
Chan 115

SAN FRANCISCO
115.8 SFO :
Chan 105



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climbing right turn heading 033° or ATC assigned heading to cross SFO 6 DME at or above 3000 for RADAR vectors to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

TAKEOFF RUNWAYS 28L/R: Climb on SFO VOR/DME R-281 to NORMM INT/SFO 13 DME; then expect RADAR vectors to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

If not in contact with departure control after reaching 3000, continue climb to filed altitude and proceed direct to assigned route/fix.

SAN FRANCISCO FOUR DEPARTURE

SNTNA TWO DEPARTURE (RNAV)
(SNTNA2.SNTNA) 25JUN15

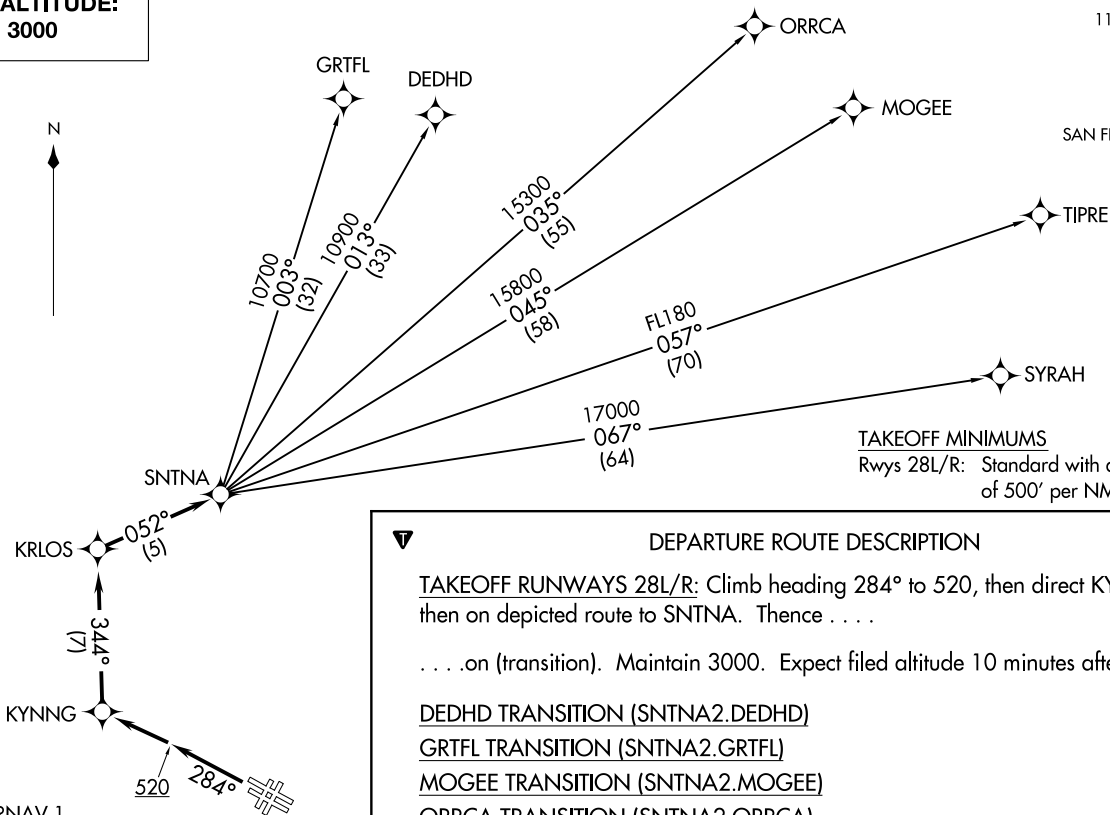
(SNTNA2.SNTNA) 17341
SNTNA TWO DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

D-ATIS 113.7 115.8 118.85
CLNC DEL 118.2
CPDLC 121.8
GND CON 121.8
SAN FRANCISCO TOWER 120.5 269.1
NORCAL DEP CON 120.9 323.2

TOP ALTITUDE:
3000



TAKEOFF MINIMUMS
Rwys 28L/R: Standard with a minimum climb of 500' per NM to 1300.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R: Climb heading 284° to 520, then direct KYNNG, then on depicted route to SNTNA. Thence
. . . .on (transition). Maintain 3000. Expect filed altitude 10 minutes after departure.

- DEDHD TRANSITION (SNTNA2.DEDHD)
- GRTFL TRANSITION (SNTNA2.GRTFL)
- MOGEE TRANSITION (SNTNA2.MOGEE)
- ORRCA TRANSITION (SNTNA2.ORRCA)
- SYRAH TRANSITION (SNTNA2.SYRAH)
- TIPRE TRANSITION (SNTNA2.TIPRE)

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Chart not to scale.

(SSTIK5.SSTIK) 21224

SSTIK FIVE DEPARTURE (RNAV)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

AL-375 (FAA)

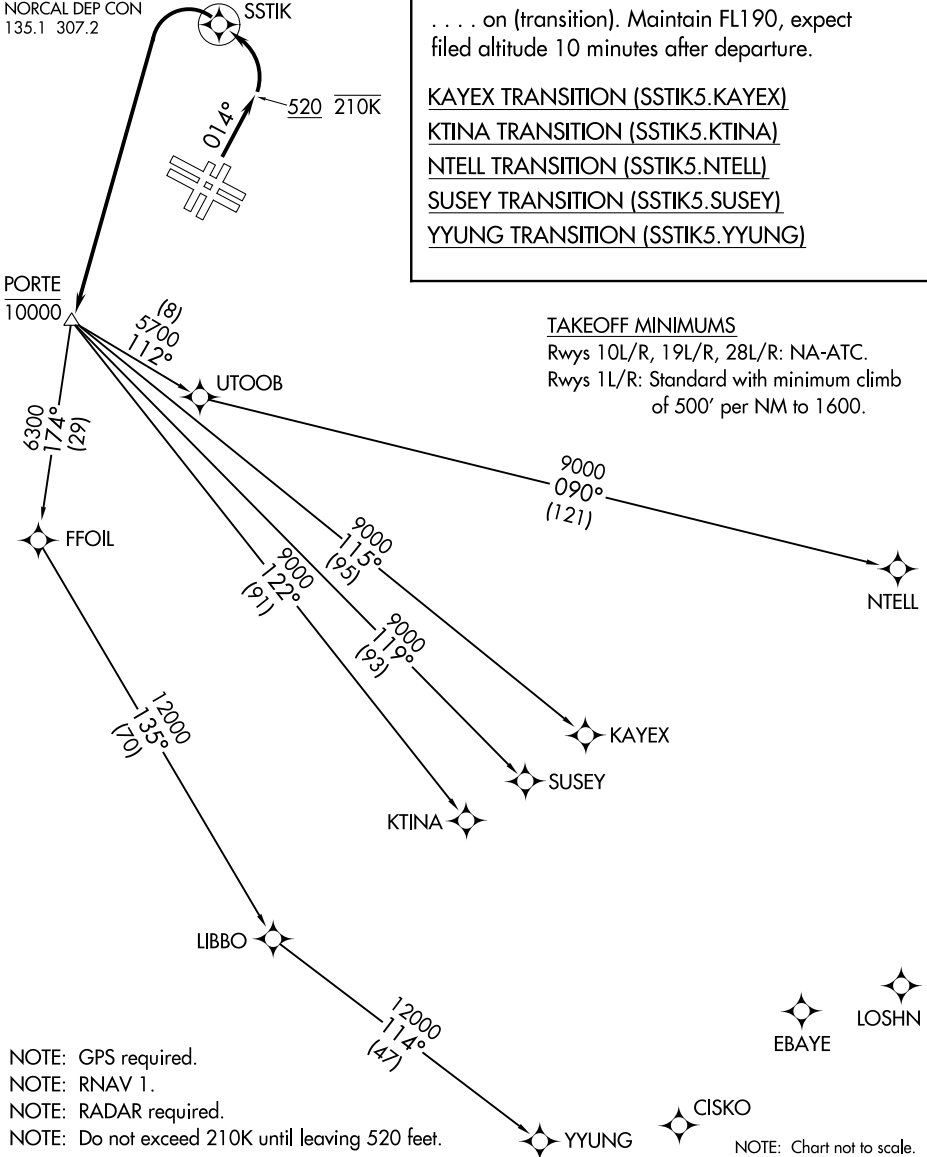
D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

**TOP ALTITUDE:
FL190**

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb on heading 014° to 520 and at or below 210K, then climbing left turn direct SSTIK, then climbing left turn direct to cross PORTE at or below 10000. Thence. . . . on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

- KAYEX TRANSITION (SSTIK5.KAYEX)
- KTINA TRANSITION (SSTIK5.KTINA)
- NTELL TRANSITION (SSTIK5.NTELL)
- SUSEY TRANSITION (SSTIK5.SUSEY)
- YYUNG TRANSITION (SSTIK5.YYUNG)



TAKEOFF MINIMUMS

Rwys 10L/R, 19L/R, 28L/R: NA-ATC.
Rwys 1L/R: Standard with minimum climb of 500' per NM to 1600.

- NOTE: GPS required.
- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: Do not exceed 210K until leaving 520 feet.

NOTE: Chart not to scale.

SSTIK FIVE DEPARTURE (RNAV)

(SSTIK5.SSTIK) 12AUG21

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

TRUKN TWO DEPARTURE (RNAV)
(TRUKN2, TRUKN) 25JUN15

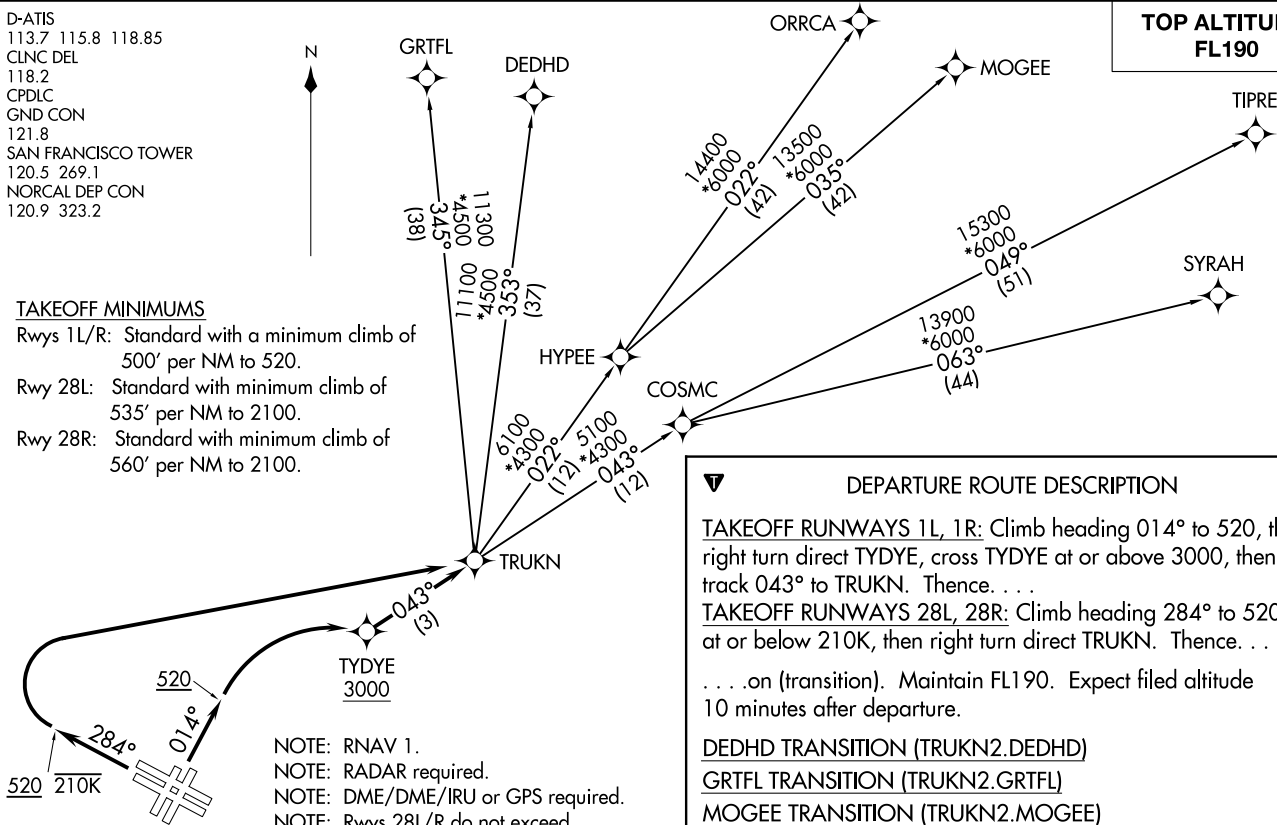
D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

TAKEOFF MINIMUMS

- Rwys 1L/R: Standard with minimum climb of 500' per NM to 520.
- Rwy 28L: Standard with minimum climb of 535' per NM to 2100.
- Rwy 28R: Standard with minimum climb of 560' per NM to 2100.

- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Rwys 28L/R do not exceed 210K until leaving 520'.

NOTE: Chart not to scale.



**TOP ALTITUDE:
FL190**

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L, 1R: Climb heading 014° to 520, then right turn direct TYDYE, cross TYDYE at or above 3000, then on track 043° to TRUKN. Thence. . .

TAKEOFF RUNWAYS 28L, 28R: Climb heading 284° to 520 and at or below 210K, then right turn direct TRUKN. Thence. . .

. . . .on (transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DEDHD TRANSITION (TRUKN2.DEDHD)

GRTFL TRANSITION (TRUKN2.GRTFL)

MOGEE TRANSITION (TRUKN2.MOGEE)

ORRCA TRANSITION (TRUKN2.ORRCA)

SYRAH TRANSITION (TRUKN2.SYRAH)

TIPRE TRANSITION (TRUKN2.TIPRE)

(TRUKN2, TRUKN) 17341
TRUKN TWO DEPARTURE (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

(WESLA5.WESLA) 21224

WESLA FIVE DEPARTURE (RNAV)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

AL-375 (FAA)

D-ATIS
113.7 115.8 118.85
CLNC DEL
118.2
CPDLC
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

**TOP ALTITUDE:
AS ASSIGNED
BY ATC**



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 28L/R: Climb on heading 284° to 520, then climb direct to cross WESLA at or above 2000 at or below 230K, then climbing left turn direct PORTE, thence

. . . . on (transition). Maintain 3000, expect filed altitude 10 minutes after departure.

KAYEX TRANSITION (WESLA5.KAYEX)

KTINA TRANSITION (WESLA5.KTINA)

NTELL TRANSITION (WESLA5.NTELL)

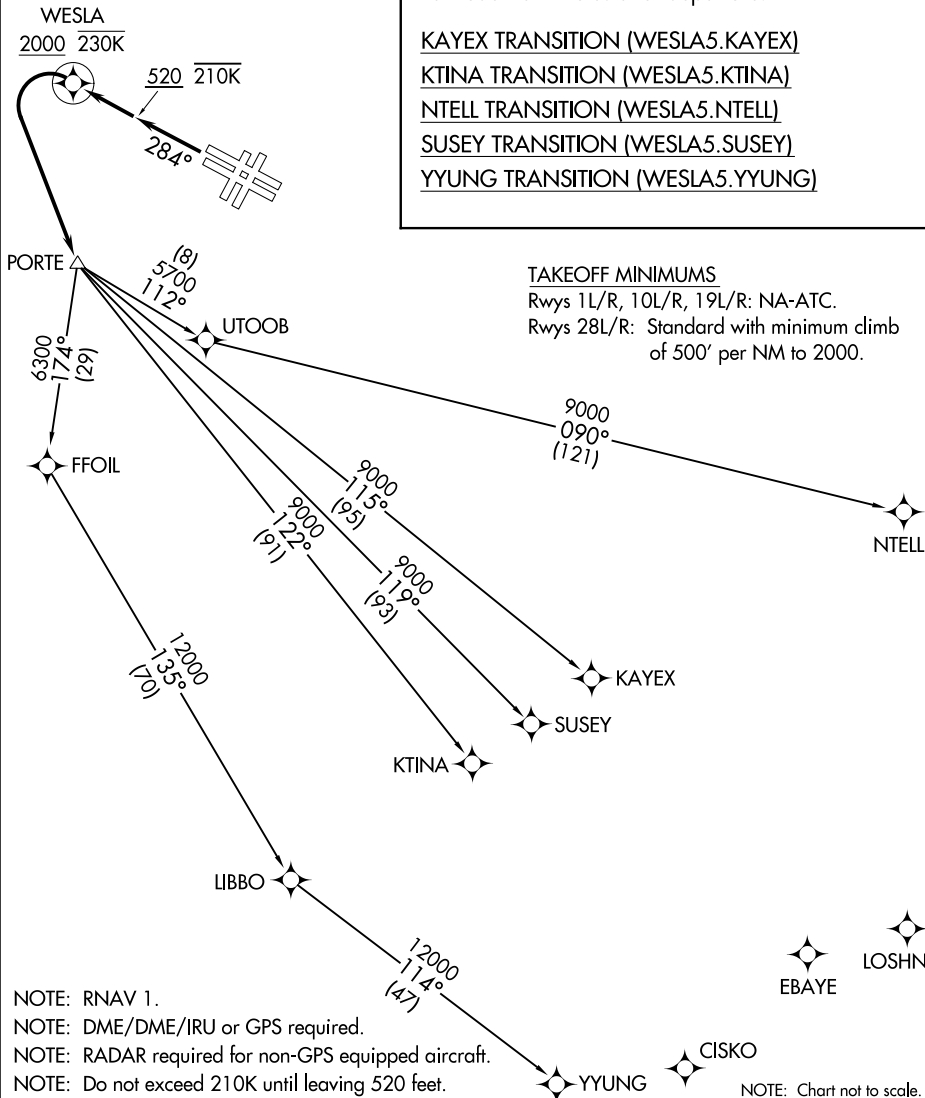
SUSEY TRANSITION (WESLA5.SUSEY)

YYUNG TRANSITION (WESLA5.YYUNG)

TAKEOFF MINIMUMS

Rwys 1L/R, 10L/R, 19L/R: NA-ATC.

Rwys 28L/R: Standard with minimum climb of 500' per NM to 2000.



NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: Do not exceed 210K until leaving 520 feet.

NOTE: Chart not to scale.

WESLA FIVE DEPARTURE (RNAV)

(WESLA5.WESLA) 12AUG21

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
ATWATER, CA CASTLE (MER)	HS 1	Twy A, Twy A1, Twy B, and Twy G complex int.
	HS 2	Twy A and southeast ramp, traffic congestion.
BEALE AFB, CA BEALE AFB (BAB)	HS 1	Twy B, high-speed U-2 mobile traffic when Rwy 15 in use.
	HS 2	Twy E, high-speed U-2 mobile traffic when Rwy 33 in use.
	HS 3	Twy F, in the vicinity of Twy C, Twy L, and Twy K. Frequent U-2 and high speed mobile traffic, slope of the twy limits visibility in both directions.
CONCORD, CA BUCHANAN FLD (CCR)	HS 1	Rwy 32L and run-up area, Twy J.
	HS 2	Complex int at Rwy 01R-19L, Twy J, Twy A, Twy C, and Twy K.
	HS 3	Rwy 32L apch, Twy A.
	HS 4	Rwy 32R, Twy B, Twy J, and the run up area.
FAIRFIELD, CA TRAVIS AFB (SUU)	HS 1	Twy G/H and Rwy 21R/03L intersection is vehicle crossing and single Rwy 21L/03R entry/exit point. Expect high vehicle and aircraft traffic.
HAYWARD, CA HAYWARD EXEC (HWD)	HS 1	Rwy 10L-28R, Twy E and Twy A.
	HS 2	Area not visible from ATCT.
	HS 3	Area not visible from ATCT.
	HS 4	Area not visible from ATCT.
	HS 5	Rwy 28L hold bars on Twy A1 and Twy Z1.
LIVERMORE, CA LIVERMORE MUNI (LVK)	HS 1	Rwy 25R, Twy B.
	HS 2	Rwy 25L, Twy C.
	HS 3	Rwy 07L, Twy H.
	HS 4	Rwy 07R, Twy G.
	HS 5	Rwy 25R, Twy G.
	HS 6	Ints of Twy J, Twy A, and Twy G.
NAPA, CA NAPA COUNTY (APC)	HS 1	Twy A, Twy A2, Twy C, Twy E and the ramp.
	HS 2	Rwy 24, Twy A.
	HS 3	Rwy 24 and Rwy 01L.
OAKLAND, CA METRO OAKLAND INTL (OAK)	HS 1	Rwy 28R, Twy A and Twy B.
	HS 2	Rwy 10L-28R, Twy H, Twy G, Twy C and Twy D.
	HS 3	Rwy 10L and Rwy 33, Twy J, Twy P, and Twy C, complex int.
SACRAMENTO, CA SACRAMENTO EXEC (SAC)	HS 1	Inbound Twy A and outbound Twy B.
	HS 2	Portion of Twy E not visible from twr.
SACRAMENTO, CA SACRAMENTO INTL (SMF)	HS 1	Twy Y2 between Concourse A and Concourse B.
	HS 2	Vehicle Service Road crossing Twy W and Twy Y.
	HS 3	Twy A at the int of Twy A13, Twy G1 and Twy P.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
SAN FRANCISCO, CA SAN FRANCISCO INTL (SFO)	HS 1 HS 2 HS 3	Complex int Twy B and Twy F. Rwy 01L-19R, Twy C and Twy E. Rwy 28R and Twy T.
SAN JOSE, CA NORMAN Y. MINETA SAN JOSE INTL (SJC)	HS 1	Rwy 30L and Twy D "Run-up Area" near Active rwy.
SAN JOSE, CA REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)	HS 1 HS 2	Numerous inbounds and outbounds at twy intersections Twy D, Twy Z, and Twy Y. Maintain vigilance when maneuvering at Twy Y, Twy Z, Twy A and Rwy 31R run-up area.
SANTA ROSA, CA CHARLES M SCHULZ- SONOMA COUNTY (STS)	HS 1 HS 2 HS 3 HS 4	Twy A, Twy A5, Twy Z complex int in close proximity to Rwy 14-32. South run-up area not visible from the twr. North run-up area east of Twy A and Twy H int in close proximity of Rwy 20 Apch Hold. Wrong rwy departure risk.
STOCKTON, CA STOCKTON METRO (SCK)	HS 1 HS 2	Area not visible from control twr. Closely spaced rwys on Twy H.
TRUCKEE, CA TRUCKEE-TAHOE (TRK)	HS 1	Simultaneous ops on Rwy 11-29 and Rwy 02-20.

*See appropriate Chart Supplement HOT SPOT table for additional information.

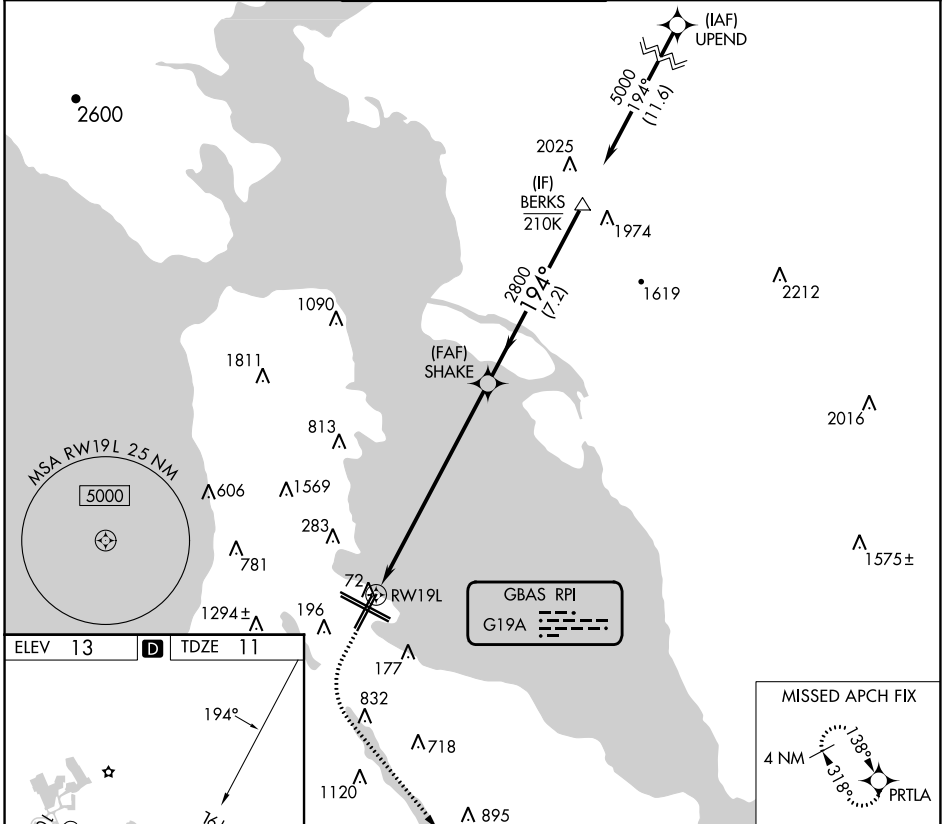
GBAS CH 21448 G19A	APP CRS 194°	Rwy Idg TDZE Apt Elev	8650 11 13
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GLS RWY 19L

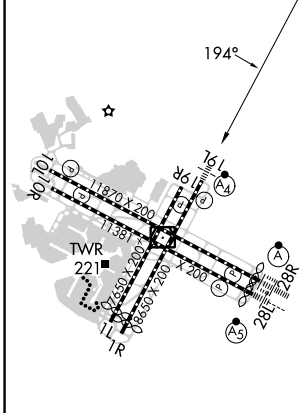
SAN FRANCISCO INTL (SFO)

RNP APCH-GPS.	MALSF	MISSED APPROACH: Climb to 920 then climbing left turn to 4000 direct PRTLA and hold. Missed approach requires minimum climb of 357 feet per NM to 2000.
<p>Autopilot coupled approach NA below 293 feet.</p> <p>For inop ALS, increase GLS visibility to RVR 4500.</p>		

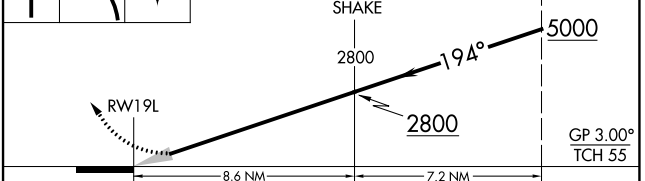
D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 11
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920	4000	PRTLA	VGSI and GLS glidepath not coincident (VGSI Angle 3.00/TCH 71).	BERKS
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CATEGORY	A	B	C	D
GLS DA	293/40		282 (300-3/4)	

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

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SW-2, 22 FEB 2024 to 21 MAR 2024

GBAS CH 21859 G19B	APP CRS 194°	Rwy Idg TDZE Apt Elev	7650 11 13
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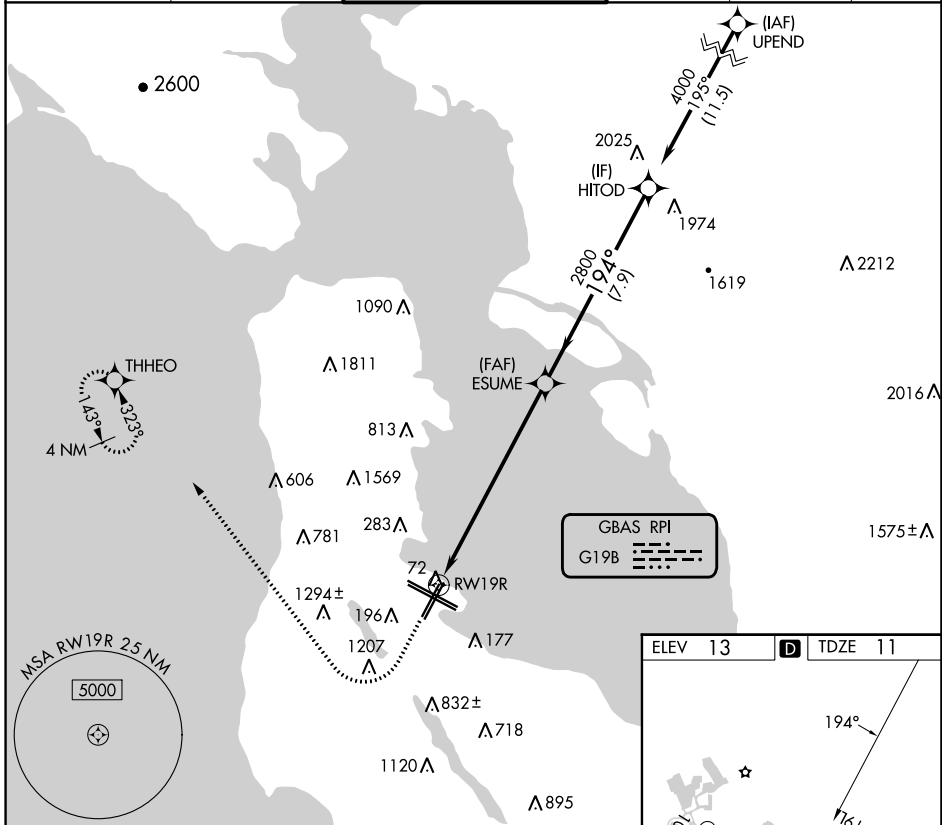
GLS RWY 19R

SAN FRANCISCO INTL (SFO)

RNP APCH-GPS.	
NA	Autopilot coupled approach NA below 321 feet.

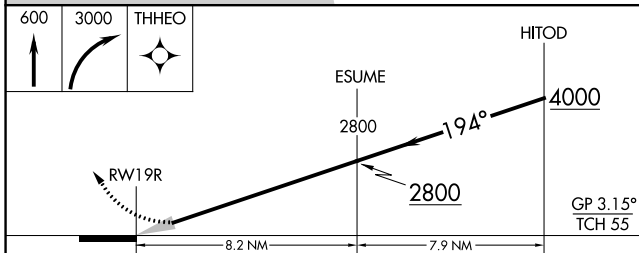
MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct THHEO and hold. Missed approach requires minimum climb of 395 feet per NM to 2100.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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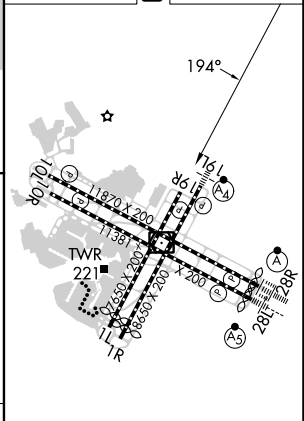


SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024



ELEV 13	D	TDZE 11
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CATEGORY	A	B	C	D
GLS DA		321/45	310 (400-7%)	

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

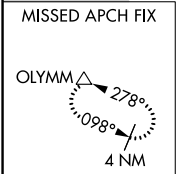
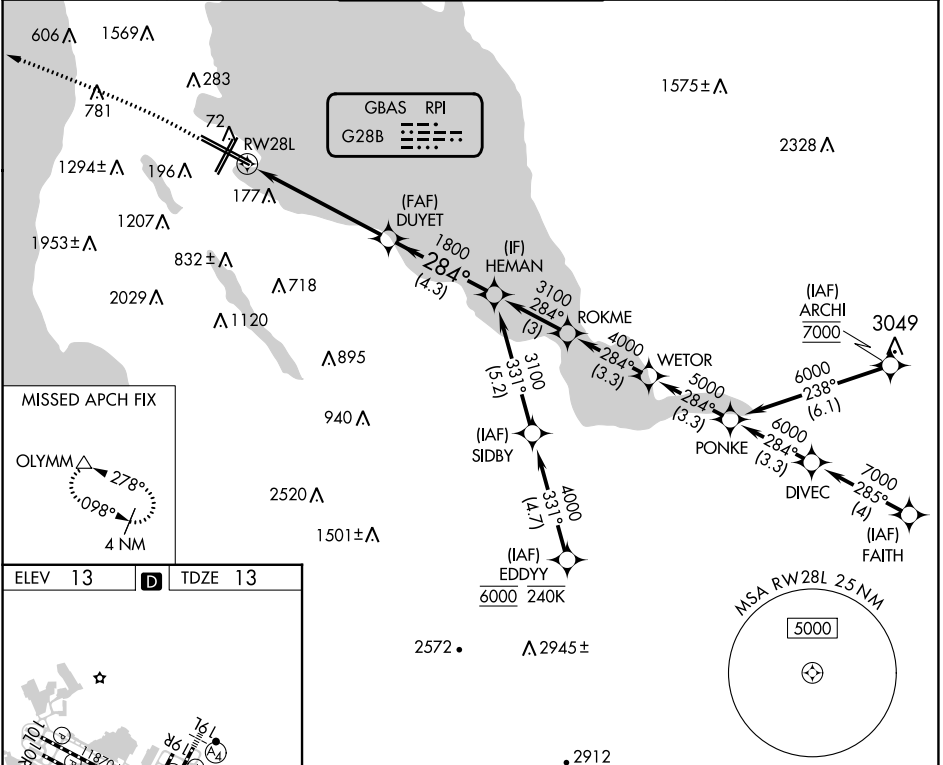
GBAS CH 21037 G28B	APP CRS 284°	Rwy Idg 10275 TDZE 13 Apt Elev 13
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GLS RWY 28L

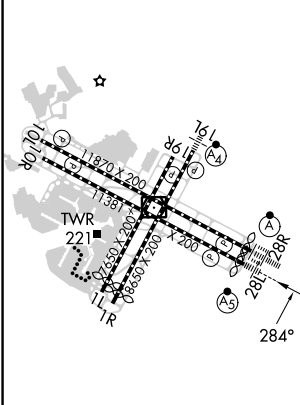
SAN FRANCISCO INTL (SFO)

RNP APCH-GPS.		MALSR 	MISSED APPROACH: Climb to 1020 then climbing left turn to 4000 direct OLYMM and hold. *Missed approach requires minimum climb of 330 feet per NM to 1600; if unable to meet climb gradient, see RNAV (GPS) Rwy 28L.		
Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. Use of FD or AP required during simultaneous operations. Autopilot coupled approach NA below 213. *RVR 1800 authorized with use of FD or AP or HUD to DA.					

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 13
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1020	4000	OLYMM	VGSI and GLS glidepath not coincident (VGSI Angle 2.85/TCH 67).		
			HEMAN		
			DUYET		
			RWY 28L		
			GP 2.85° TCH 53		
			5.7 NM 4.3 NM		
CATEGORY	A	B	C	D	
GLS DA*	213/24		200 (200-½)		

HIRL all Rwys
 TDZ/CL Rwys 19L and 28R
 REIL Rwys 1L, 1R and 10L

SW-2, 22 FEB 2024 to 21 MAR 2024

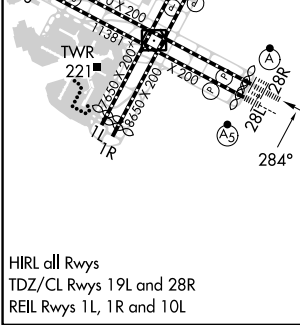
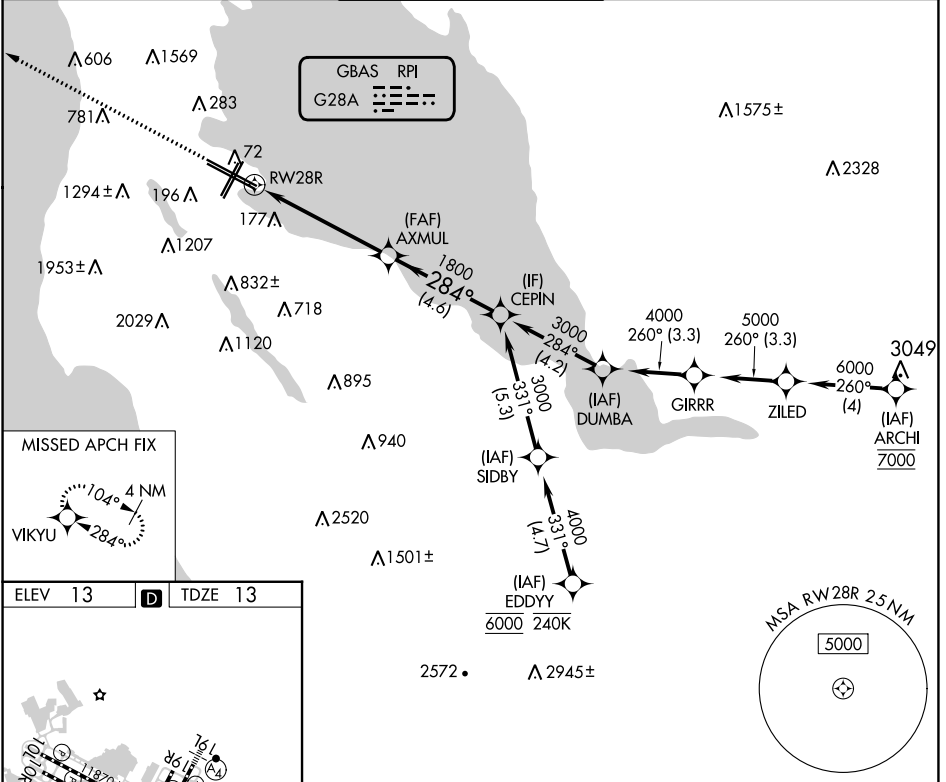
SW-2, 22 FEB 2024 to 21 MAR 2024

GBAS CH 20626 G28A	APP CRS 284°	Rwy Idg 11236 TDZE 13 Apt Elev 13
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GLS RWY 28R

SAN FRANCISCO INTL (SFO)

RNP APCH-GPS.		ALSF-2 	MISSED APPROACH: Climb to 3200 direct VIKYU and hold. *Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see RNAV (GPS) Z RWY 28R.		
<p>Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. Use of FD or AP required during simultaneous operations. Autopilot coupled approach NA below 213 feet.</p>					
D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC



3200 VIKYU	VGS and GLS glidepath not coincident (VGS Angle 3.00/TCH 68).		CEPIN
	AXMUL	1800	3000
	RWY 28R	284°	1800
	5.4 NM	4.6 NM	GP 3.00° TCH 55
CATEGORY	A	B	C
GLS DA*	213/18 200 (200-1/2)		

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

LOC/DME I-SFO 109.55 Chan 32(Y)	APP CRS 284°	Rwy Idg TDZE Apt Elev	10275 13 13
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ILS RWY 28L (SA CAT II)

SAN FRANCISCO INTL (SFO)

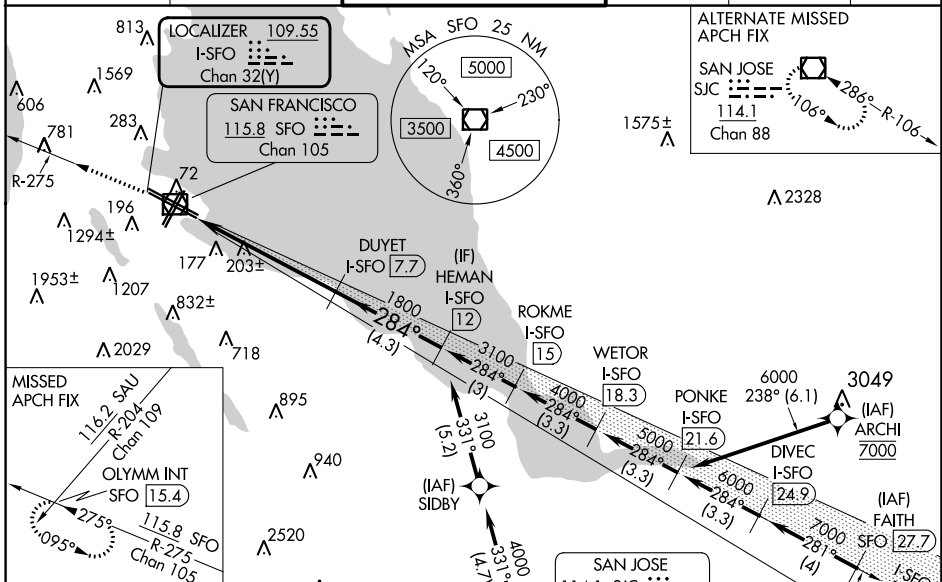
DME required. RNP APCH-GPS or RADAR required for procedure entry.

Requires specific OPSPEC, MSPEC, or LOA approval.

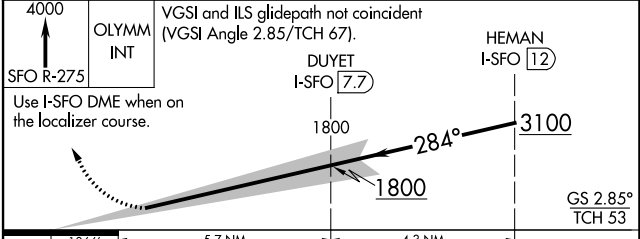
MALSRL

MISSED APPROACH: Climb to 4000 on SFO VOR/DME R-275 to OLYMM INT/SFO 15.4 DME and hold, continue climb-in-hold to 4000.
*Misted approach requires minimum climb of 330 feet per NM to 1600.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 13
HIRL All Rwys		
TDZ/CL Rwys 19L and 28R		
REIL Rwys 1L, 1R and 10L		



CATEGORY	A	B	C	D
S-ILS 28L*	RA 113/12 100 DA 113			

SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

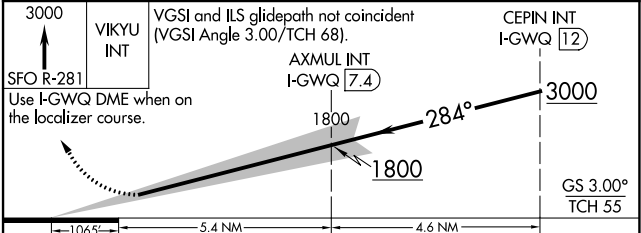
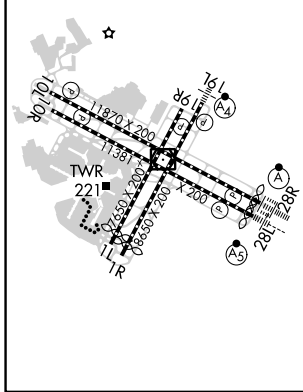
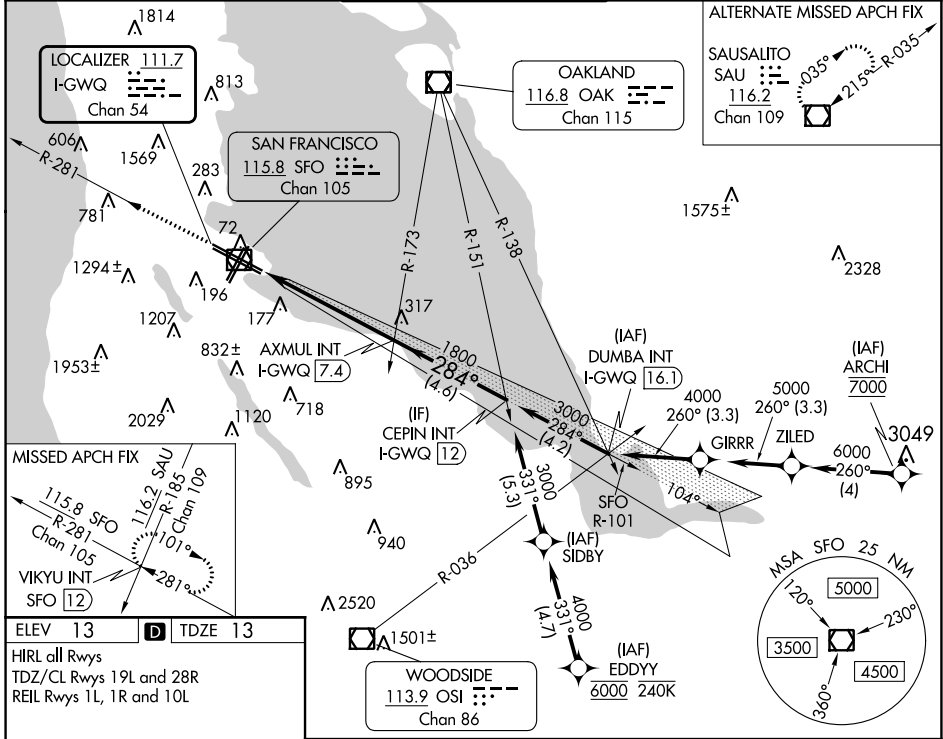
LOC/DME I-GWQ 111.7 Chan 54	APP CRS 284°	Rwy Idg 11236 TDZE 13 Apt Elev 13
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ILS RWY 28R (CAT II & III)

SAN FRANCISCO INTL (SFO)

RNAV 1-GPS or RADAR required for procedure entry.		ALSIF-2	MISSED APPROACH: Climb to 3000 on SFO VOR/DME R-281 to VIKYU INT/SFO 12 DME and hold. *Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see ILS or LOC RWY 28L.		
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D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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CATEGORY	A	B	C	D
S-ILS 28R*	CAT II RA 113/12 100 DA 113			
S-ILS 28R*	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

LOC/DME I-GWQ 111.7 Chan 54	APP CRS 284°	Rwy Idg 11236 TDZE 13 Apt Elev 13
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ILS RWY 28R (SA CAT I)

SAN FRANCISCO INTL (SFO)

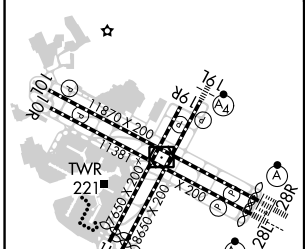
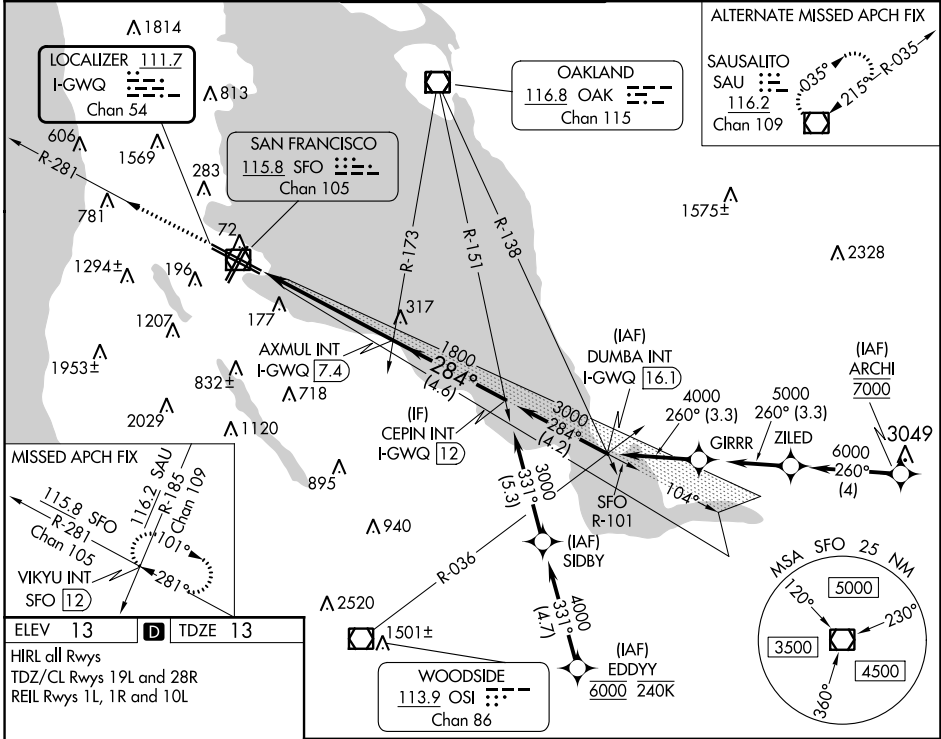
RNAV 1-GPS or RADAR required for procedure entry.

Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSIF-2

MISSED APPROACH: Climb to 3000 on SFO VOR/DME R-281 to VIKYU INT/SFO 12 DME and hold.
*Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see ILS or LOC RWY 28L.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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CATEGORY			
A	B	C	D
S-ILS 28R*			
RA 163/14 150 DA 163			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

SAN FRANCISCO, CALIFORNIA

AL-375 (FAA)

23334

LOC/DME I-SIA 108.9 Chan 26	APP CRS 194°	Rwy Idg 19L 19R TDZE 11 11 Apt Elev 13 13
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ILS or LOC RWY 19L

SAN FRANCISCO INTL (SFO)

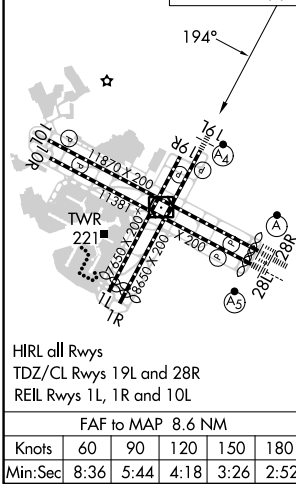
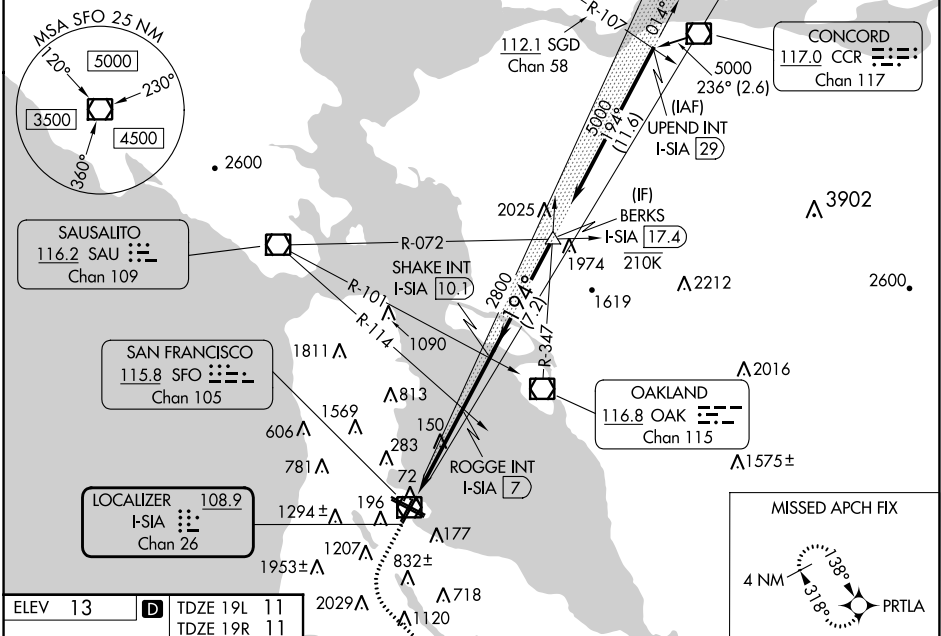
RNP APCH - GPS.

⚠ Inop table does not apply to S-LOC Rwy 19L or Sidestep Rwy 19R. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on the glide slope. For inop ALS, increase S-ILS Rwy 19L* all Cats visibility to RVR 4500, S-ILS Rwy 19L all Cats visibility to 2½ SM. Sidestep NA until passing ROGGE INT.

MALS
Rwy 19L

MISSED APPROACH: Climb to 1100 then climbing left turn to 4000 direct to PRTLA and hold.
*Missed approach requires minimum climb of 357 feet per NM to 2000.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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CATEGORY	A	B	C	D
S-ILS 19L*		300/40	289 (300-¾)	
S-ILS 19L		774-2	763 (800-2)	
S-LOC 19L	1800-1¼ 1789 (1800-1¼)	1800-1½ 1789 (1800-1½)	1800-3	1789 (1800-3)
ROGGE FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
S-LOC 19L	880/40 869 (900-¾)	880/55 869 (900-1)	880-2½	869 (900-2½)
SIDESTEP 19R	880-2	869 (900-2)	880-3	869 (900-3)

SAN FRANCISCO, CALIFORNIA
Amdt 23 30NOV23

37°37'N-122°23'W

SAN FRANCISCO INTL (SFO)

ILS or LOC RWY 19L

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

LOC/DME I-SFO	APP CRS	Rwy Idg	10275
109.55	284°	TDZE	13
Chan 32(Y)		Apt Elev	13

ILS or LOC RWY 28L

SAN FRANCISCO INTL (SFO)

DME required. RNP APCH-GPS or RADAR required for procedure entry.

⚠ Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling to Rwy 1L and 1R NA at night. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. LOC procedure NA during simultaneous operations.

*RVR 1800 authorized with use of FD or AP or HUD to DA.

†For inop ALS, increase S-ILS 28L all Cats visibility to 2½ SM.

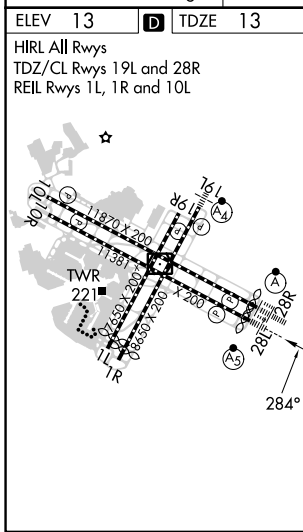
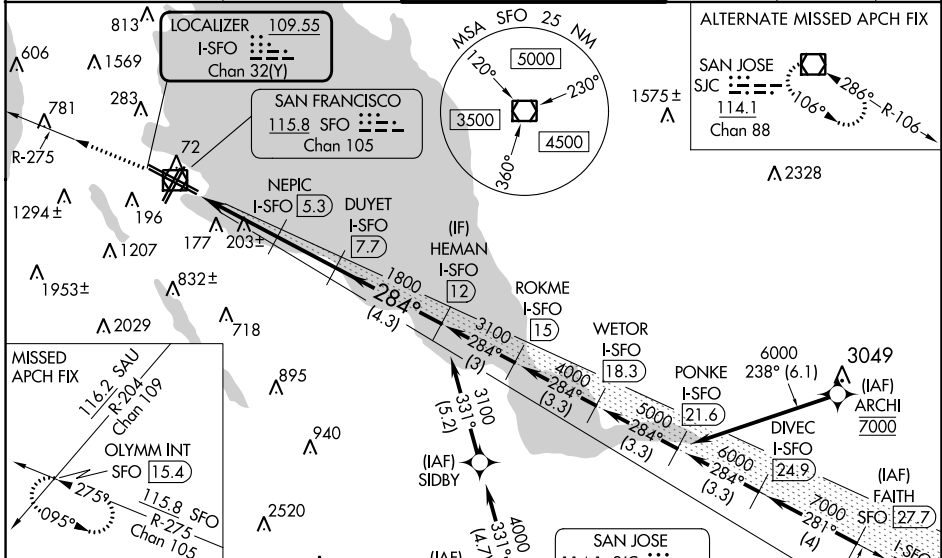
**For inop ALS increase S-LOC 28L Cat C/D visibility to 2½ SM.

MALSR

AS

MISSED APPROACH: Climb to 4000 on SFO VOR/DME R-275 to OLYMM INT/SFO 15.4 DME and hold, continue climb-in-hold to 4000. #Missed approach requires minimum climb of 330 feet per NM to 1600.

D-ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON	CLNC DEL	CPDLC
113.7 115.8 118.85	134.5 338.2	120.5 269.1	121.8	118.2	



ELEV 13 TDZE 13

HIRL All Rwys
TDZ/CL Rwys 19L and 28R
REIL Rwys 1L, 1R and 10L

VGSI and ILS glidepath not coincident (VGSI Angle 2.85/TCH 67). Use I-SFO DME when on the localizer course.

	OLYMM INT	DUYET I-SFO 7.7	HEMAN I-SFO 12
	3100	1800	3100
	860	1800	
	1.3 NM	2.1 NM	4.3 NM
	I-SFO 1.9	I-SFO 3.2	I-SFO 5.3
	SFO R-275		

CATEGORY	A	B	C	D
S-ILS 28L#*	213/24	200 (200-½)		
S-ILS 28L†	789-1¾	776 (800-1¾)		
S-LOC 28L#	460/24	447 (500-½)	460/45	447 (500-¾)
S-LOC 28L**	860/24 847 (900-½)	860/40 847 (900-¾)	860-1⅞	847 (900-1⅞)
C CIRCLING	860-1¼ 847 (900-1¼)	960-1¼ 947 (1000-1¼)	1560-3 1547 (1600-3)	NA

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

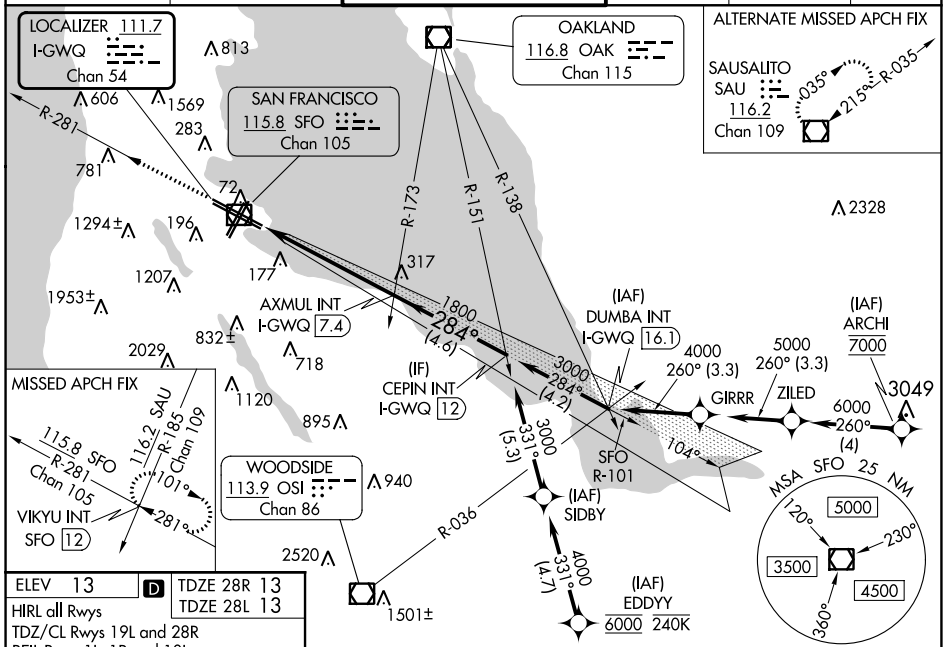
LOC/DME I-GWQ 111.7 Chan 54	APP CRS 284°	Rwy Idg 28R 28L	11236 10275
		TDZE 13 13	
		Apt Elev 13 13	

ILS or LOC RWY 28R

SAN FRANCISCO INTL (SFO)

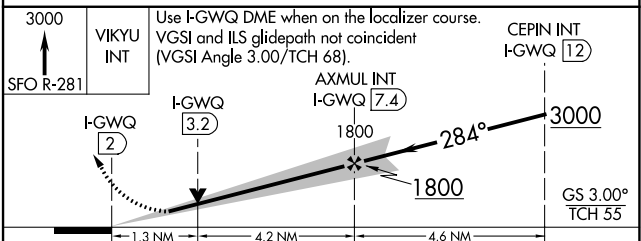
RNAV 1-GPS or RADAR required for procedure entry.		ALSIF-2 Rwy 28R	MALSR Rwy 28L	MISSED APPROACH: Climb to 3000 on SFO VOR/DME R-281 to VIKYU INT/SFO 12 DME and hold. *Missed approach requires minimum climb of 350 feet per NM to 1900; if unable to meet climb gradient, see ILS or LOC RWY 28L.
<p>⚠ Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling Rwy 1L, 1R NA at night. LOC procedure NA during simultaneous operations. For inop ALS increase S-LOC 28R* Cat C/D visibility to 1 3/8 SM. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope.</p>				

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	TDZE 28R 13
HIRL all Rwys	TDZE 28L 13
TDZ/CL Rwys 19L and 28R	
REIL Rwys 1L, 1R and 10L	

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



CATEGORY	A	B	C	D
S-ILS 28R*	213/18 200 (200-1/2)			
S-LOC 28R*	480/24	467 (500-1/2)	480/50	467 (500-1)
SIDESTEP* 28L	480/55 467 (500-1)			480-1 1/2 467 (500-1 1/2)
ⓐ CIRCLING	740-1 727 (800-1)	960-1 1/4 947 (1000-1 1/4)	1560-3 1547 (1600-3)	NA

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

QUIET BRIDGE VISUAL RWY 28L/R

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

D-ATIS

113.7 115.8 118.85

NORCAL APP CON

134.5 338.2

SAN FRANCISCO TOWER

120.5 269.1

GND CON

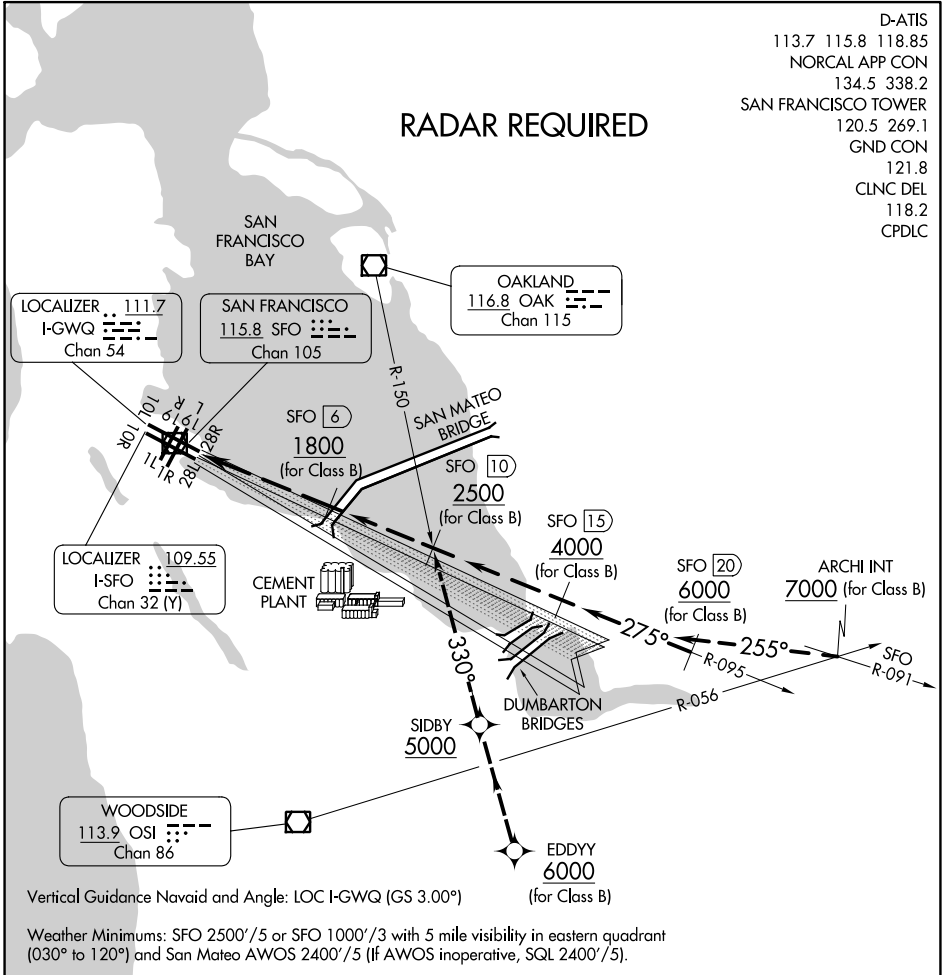
121.8

CLNC DEL

118.2

CPDLC

RADAR REQUIRED



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

Vertical Guidance Navaid and Angle: LOC I-GWQ (GS 3.00°)

Weather Minimums: SFO 2500'/5 or SFO 1000'/3 with 5 mile visibility in eastern quadrant (030° to 120°) and San Mateo AWOS 2400'/5 (If AWOS inoperative, SQL 2400'/5).

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
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QUIET BRIDGE VISUAL APPROACH RUNWAY 28L/R

NOTE: Closely spaced parallel visual approaches may be in progress to Runway 28L utilizing I-SFO. In the event of a go-around on Runway 28L, turn left heading 265° or on Runway 28R, heading 280°, climb and maintain 3000 or as directed by ATC.

QUIET BRIDGE VISUAL RWY 28L/R

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

APP CRS 104°	Rwy Idg 11193
	TDZE 7
	Apt Elev 13

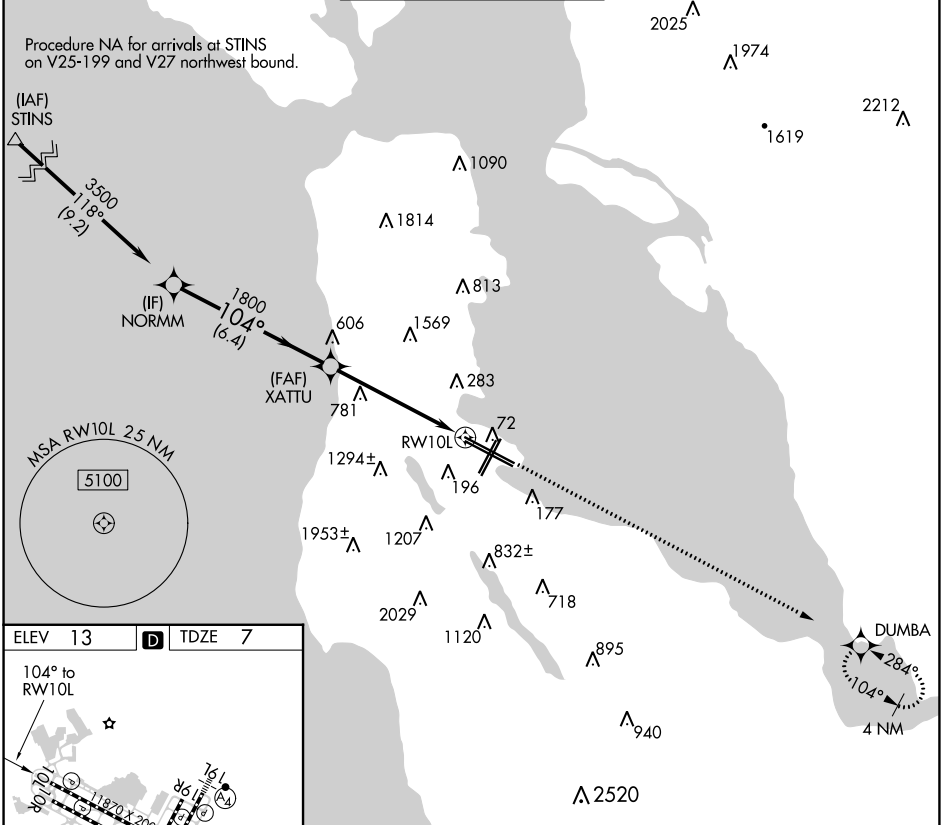
RNAV (GPS) RWY 10L

SAN FRANCISCO INTL (SFO)

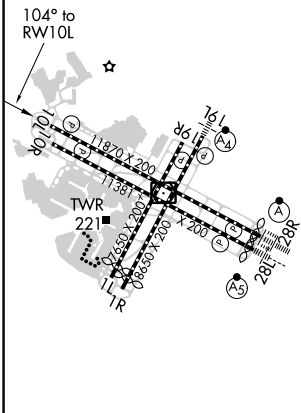
▽ DME/DME RNP-0.3 NA.
△ Helicopter visibility reduction below RVR 4000 NA.

MISSED APPROACH: Climb to 4000 direct DUMBA and hold.

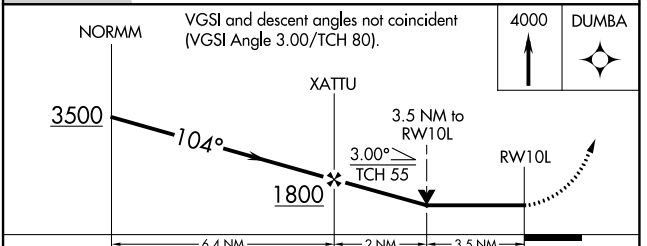
D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 7
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TDZ/CL Rwy 19L and 28R
 REIL Rwy 1L, 1R, and 10L
 HIRL all Rwy



CATEGORY	A	B	C	D
LNAV MDA	1200/60 1193 (1200-1¼)	1200-1½ 1193 (1200-1½)	1200-3	1193 (1200-3)

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

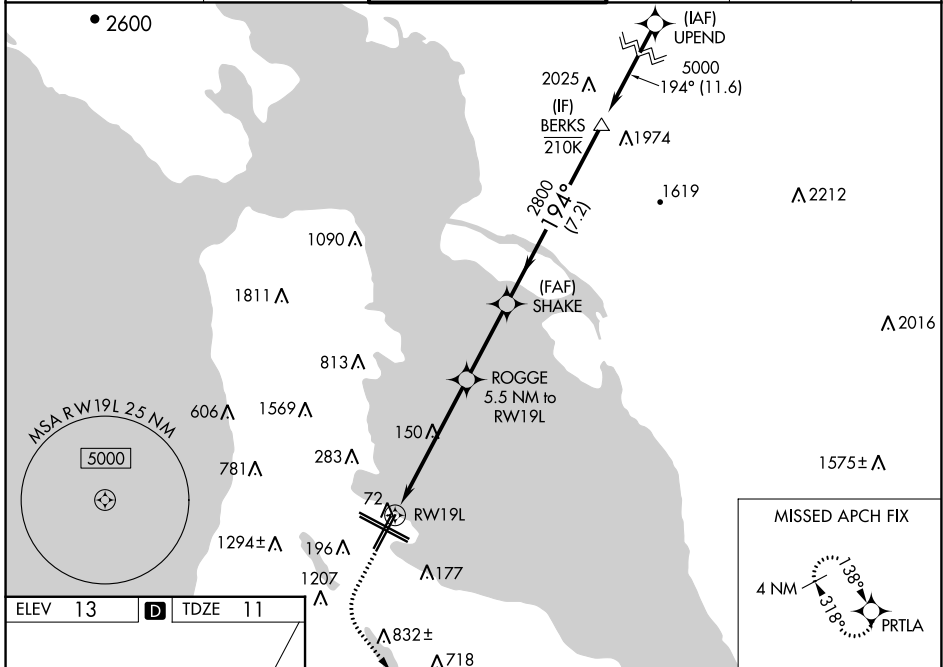
WAAS CH 58015 W19A	APP CRS 194°	Rwy Idg TDZE Apt Elev	8650 11 13
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RNAV (GPS) RWY 19L

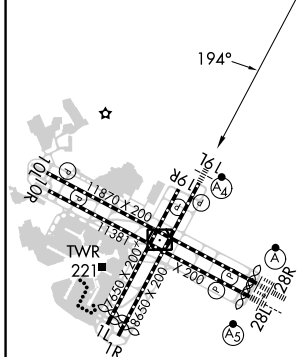
SAN FRANCISCO INTL (SFO)

RNP APCH - GPS.	MALSF ⊖ ⊕ ⊙	MISSED APPROACH: Climb to 1100 then climbing left turn to 4000 direct PRTLA and hold. *Missed approach requires minimum climb of 357 feet per NM to 2000.
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D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 11
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1100	4000	PRTLA	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).	BERKS
		3.2 NM to RW19L	ROGGE 5.5 NM to RW19L	SHAKE
			1800	5000
			194°	GP 3.00° TCH 55
			3.2 NM	2.3 NM
			3.1 NM	7.2 NM

CATEGORY	A	B	C	D
LPV DA*		293/40	282 (300-¾)	
LPV DA		656-1½	645 (700-1½)	
LNAV/VNAV DA*		350/40	339 (400-¾)	
LNAV/VNAV DA		794-2	783 (800-2)	
LNAV MDA	1100/55 1089 (1100-1)	1100-1¼ 1089 (1100-1¼)	1100-2½	1089 (1100-2½)

TDZ/CL Rws 19L and 28R
REIL Rws 1L, 1R and 10L
HIRL all Rws

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024


WAAS CH 53415 W28B	APP CRS 284°	Rwy Idg 10275 TDZE 13 Apt Elev 13
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RNAV (GPS) RWY 28L

SAN FRANCISCO INTL (SFO)

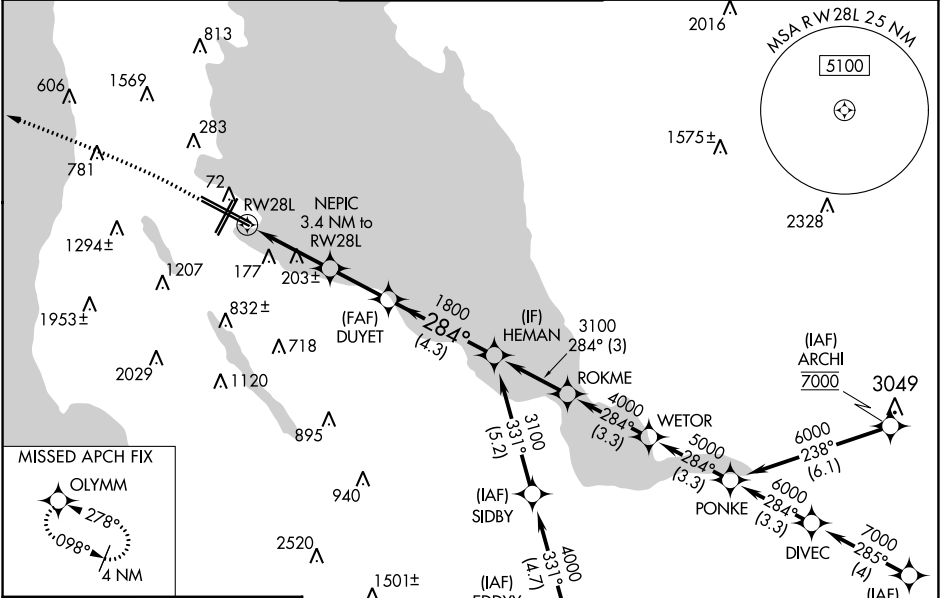
RNP APCH.

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 3°C or above 54°C. For inop ALS, increase LPV † all Cats visibility to 2½ SM, increase LNAV/VNAV all Cats visibility to 2 SM. Circling NA to Rwy 10L, 10R, 19L, and 19R. Circling Rwy 1L, 1R NA at night.
#RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR 

MISSED APPROACH: Climb to 1020 then climbing left turn to 4000 direct OLYMM and hold, continue climb-in-hold to 4000. #Missed approach requires minimum climb of 330 feet per NM to 1600.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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MISSED APCH FIX

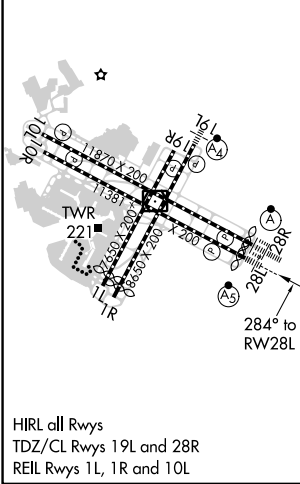
OLYMM

278°

098°

4 NM

ELEV 13	D	TDZE 13
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1020 4000 OLYMM

VGSI and RNAV glidepath not coincident (VGSI Angle 2.85/TCH 67).

HEMAN

*LNAV only

NEPIC 3.4 NM to RWY28L

DUYET 1800

RWY28L

1080*

284°

3100

GP 2.85° TCH 53

3.4 NM 2.4 NM 4.3 NM

CATEGORY	A	B	C	D
LPV DA#		213/24	200 (200-½)	
LPV DA†		798-1¾	785 (800-1¾)	
LNAV/VNAV DA		770-1¾	757 (800-1¾)	
LNAV MDA	1020/40 1007 (1100-¾)	1020/55 1007 (1100-1)	1020-2½	1007 (1100-2½)
CIRCLING	1020-1¼ 1007 (1100-1¼)	1020-1½ 1007 (1100-1½)	1560-3 1547 (1600-3)	NA

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

RNAV (RNP) Y RWY 28R

SAN FRANCISCO INTL (SFO)

APP CRS	Rwy Idg	11236
284°	TDZE	13
	Apt Elev	13

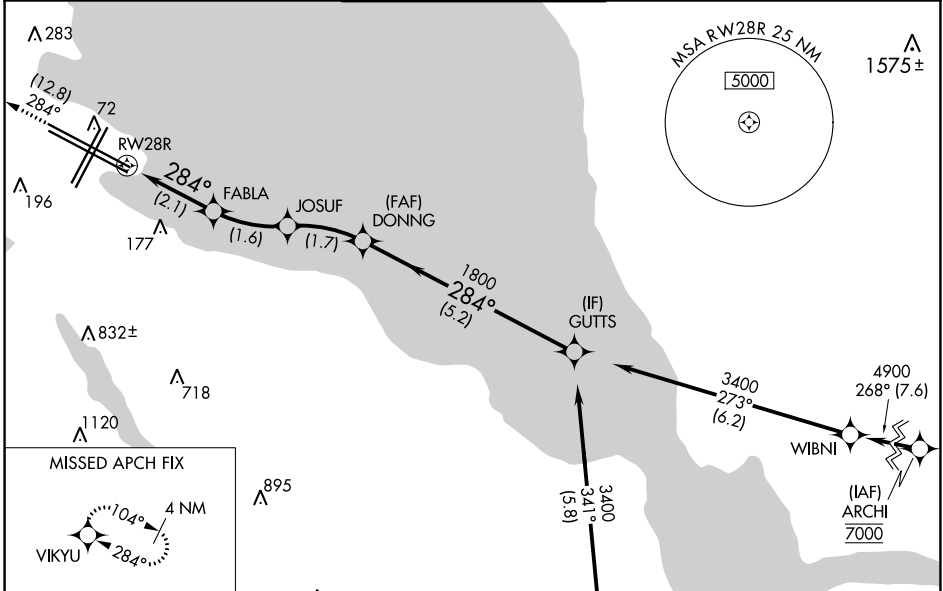
RNP AR APCH, RF required.

▼ For uncompensated Baro-VNAV systems, procedure NA below 3°C or above 54°C. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 4000 and RNP 0.30 all Cats visibility to RVR 4500.

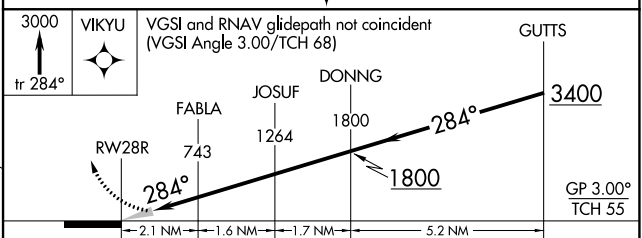
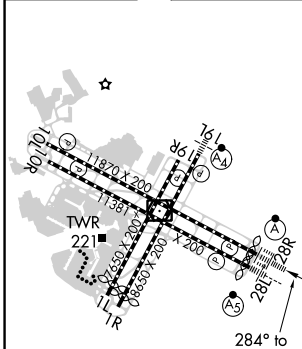
ALSF-2

MISSED APPROACH: Climb to 3000 on track 284° to VIKYU and hold.
 * Missed approach requires minimum climb of 250 feet per NM to 1600.
 # Missed approach requires minimum climb of 350 feet per NM to 2100.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 13
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CATEGORY	A	B	C	D
RNP 0.11 DA*		263/24	250 (300-½)	
RNP 0.30 DA#		326/24	313 (400-½)	

AUTHORIZATION REQUIRED

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

APP CRS 104°	Rwy Idg 10704
	TDZE 10
	Apt Elev 13

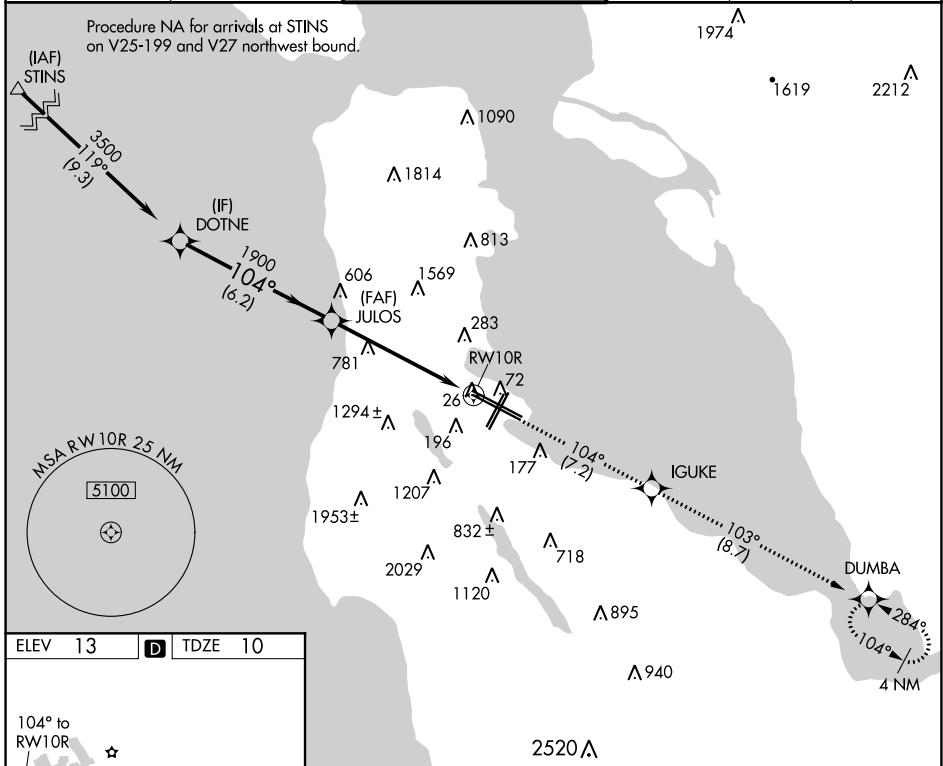
RNAV (RNP) Z RWY 10R

SAN FRANCISCO INTL (SFO)

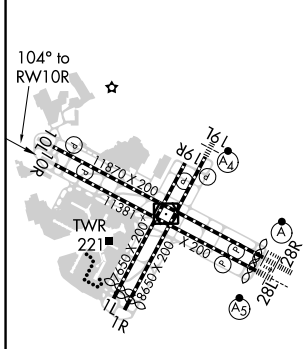
⚠ For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). GPS required. When VGSI inop, procedure NA at night.

⚠ MISSED APPROACH: Climb to 3600 on track 104° to IGUKE and on track 103° to DUMBA and hold.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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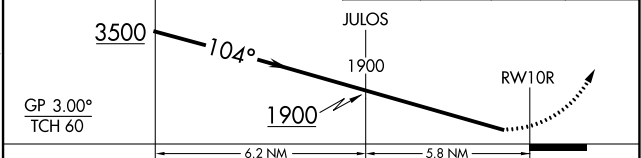


ELEV 13	D	TDZE 10
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VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 68).

3600 tr 104°	IGUKE	DUMBA tr 103°
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CATEGORY	A	B	C	D
RNP 0.20 DA		396-1¼	386 (400-1¼)	
RNP 0.30 DA		1108-4	1098 (1100-4)	

AUTHORIZATION REQUIRED

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

APP CRS	Rwy Idg	11236
281°	TDZE	13
	Apt Elev	13

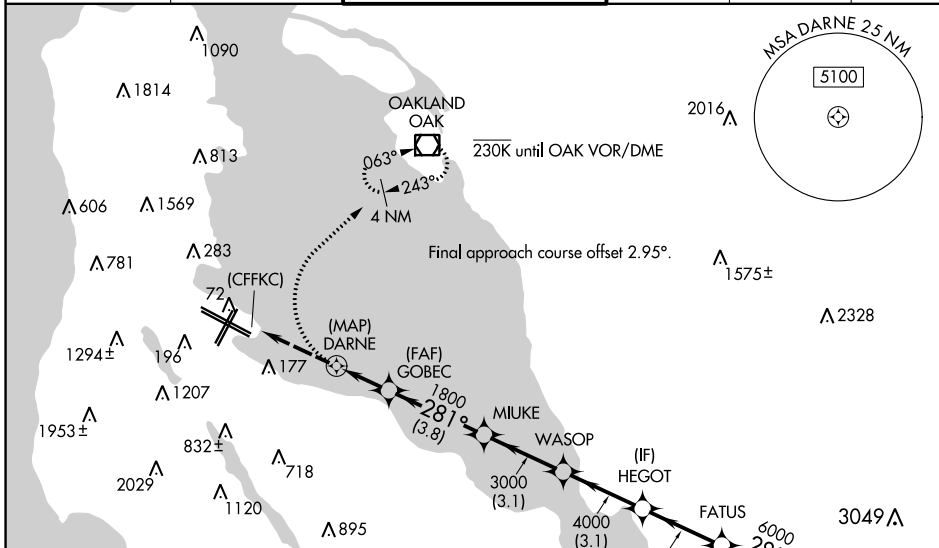
RNAV (GPS) X RWY 28R

SAN FRANCISCO INTL (SFO)

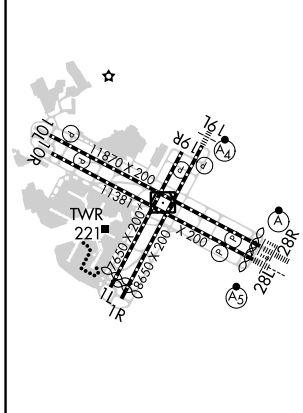
NA Runway 28L and 28R separated by 750 feet centerline to centerline. DME/DME RNP-0.3 NA. When executing a missed approach or go-around, unless otherwise instructed by ATC, initially turn right to 030° utilizing heading mode. Inoperative table does not apply. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C (36°F) or above 54°C (130°F).
 *If a go-around executed after passing DARNE, go-around requires a minimum climb of 380 feet per NM to 1800.

ALSF-2 MISSED APPROACH: Climbing right turn to 3000 on heading 030° then direct OAK VOR/DME and hold.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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ELEV 13	D	TDZE 13
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TDZ/CL Rws 19L and 28R
 REIL Rws 1L, 1R, and 10L
 HIRL all Rws

3000 OAK		VGSi and RNAV glidepath not coincident (VGSi Angle 3.00/TCH 68).			
hdg 030°					
ANETE 7000					
FATUS 6000					
HEGOT 4000					
WASOP 3000					
MIUKE 3000					
GOBEC 1800					
DARNE 1140					
(CFFKC) 1140					
GP 3.00° TCH 55					
CATEGORY	A	B	C	D	
LNAV/VNAV DA*	1140-4 1127 (1200-4)				

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

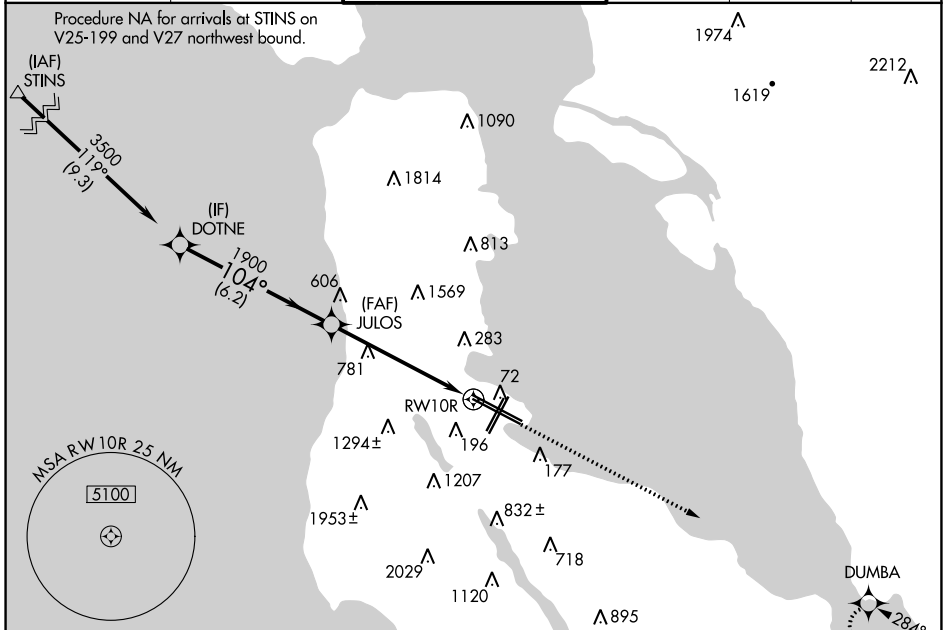
APP CRS	Rwy Idg	10704
104°	TDZE	10
	Apt Elev	13

RNAV (GPS) Y RWY 10R

SAN FRANCISCO INTL (SFO)

<p>⚠ DME/DME RNP-0.3 NA. When VGSI inop, procedure NA at night. Helicopter visibility reduction below RVR 5000 NA.</p>	<p>MISSED APPROACH: Climb to 4000 direct DUMBA and hold.</p>
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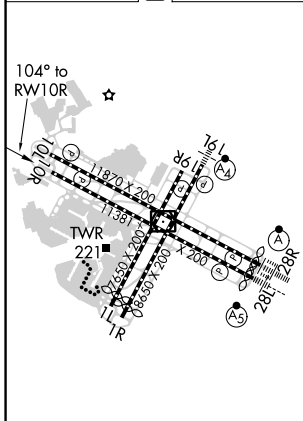
D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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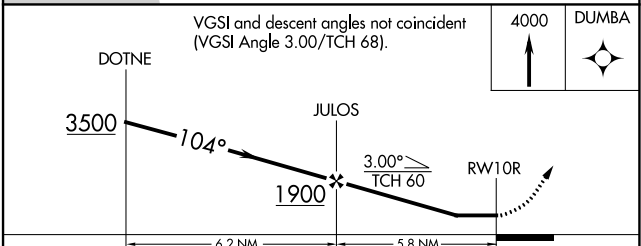
SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

ELEV 13	D	TDZE 10
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TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy



CATEGORY	A	B	C	D
RNAV MDA	1200/60 1190 (1200-1/4)	1200-1/2 1190 (1200-1/2)	1200-3	1190 (1200-3)

WAAS CH 53533 W19B	APP CRS 194°	Rwy Idg 7650 TDZE 11 Apt Elev 13
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RNAV (GPS) Y RWY 19R

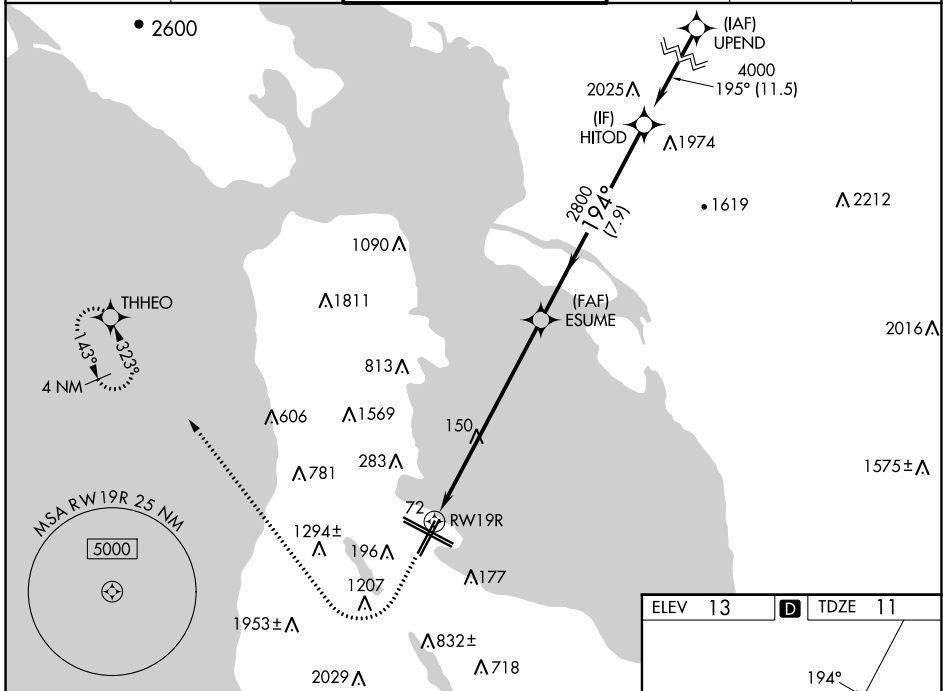
SAN FRANCISCO INTL (SFO)

RNP APCH-GPS.

⚠ LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. Simultaneous approach NA below 12°C (52°F).

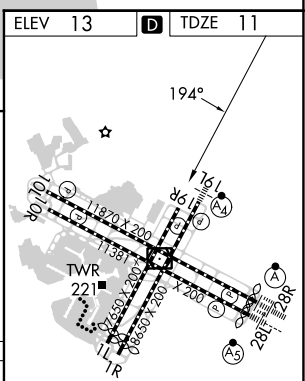
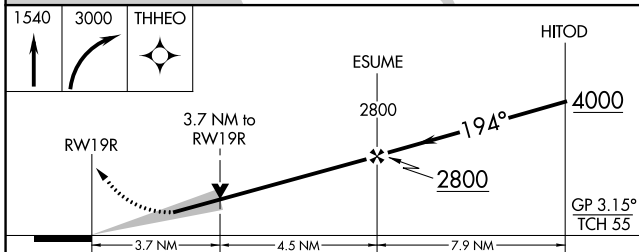
MISSED APPROACH: Climb to 1540 then climbing right turn to 3000 direct THHEO and hold.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024



1540	3000	THHEO	HITOD	
↑	↷	✧		
RWY 19R		ESUME	HITOD	
3.7 NM to RWY 19R		2800	4000	
		19.4°	2800	
		GP 3.15°	TCH 55	
CATEGORY	A	B	C	D
LPV DA	1005-4		994 (1000-4)	
LNAV/VNAV DA	878-2½		867 (900-2½)	
LNAV MDA	1320-1¼ 1309 (1400-1¼)	1320-1½ 1309 (1400-1½)	1320-3	1309 (1400-3)

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

WAAS CH 57945 W19D	APP CRS 194°	Rwy Idg TDZE Apt Elev	7650 11 13
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RNAV (GPS) Z RWY 19R

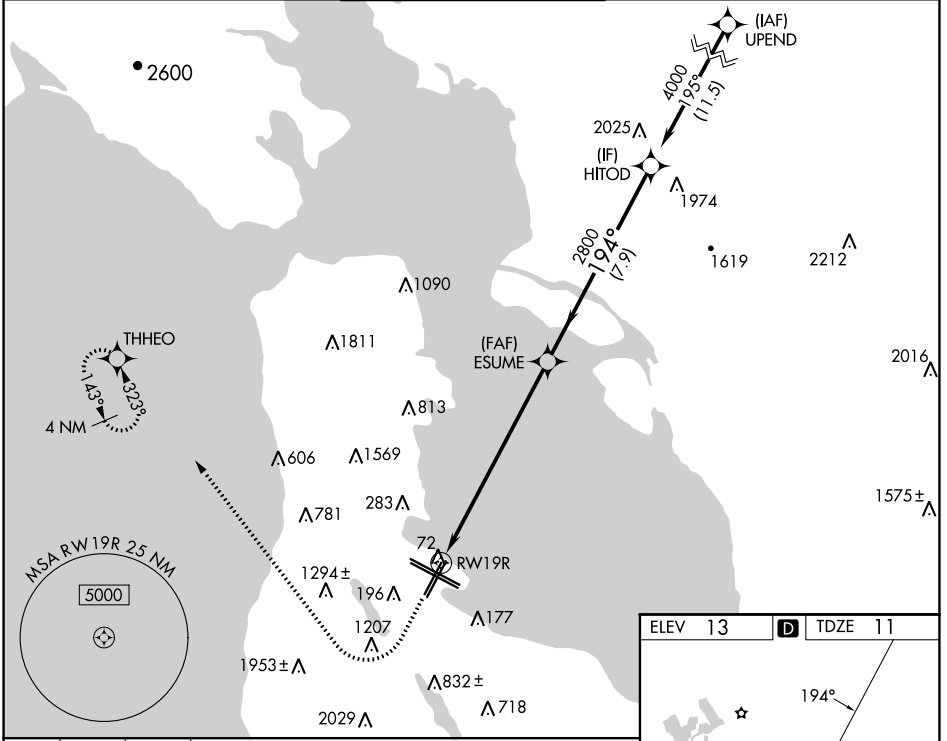
SAN FRANCISCO INTL (SFO)

RNP APCH - GPS.

Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 4°C or above 54°C. Simultaneous approach NA below 12°C (52°F).

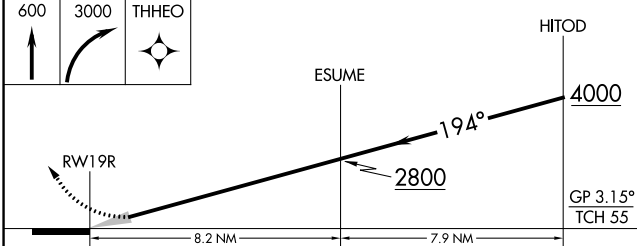
MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct THHEO and hold.
 *Missed approach requires minimum climb of 395 feet per NM to 2100; if unable to meet climb gradient, see RNAV (GPS) Y RWY 19R.

D-ATIS 113.7 115.8 118.85	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2	CPDLC
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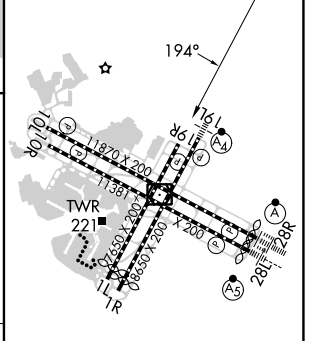


SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024



ELEV 13	D	TDZE 11
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CATEGORY	A	B	C	D
LPV DA*		317/45	306 (400-7/8)	
LNAV/VNAV DA*		328/45	317 (400-7/8)	

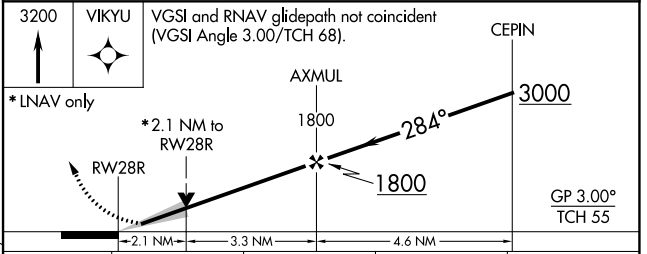
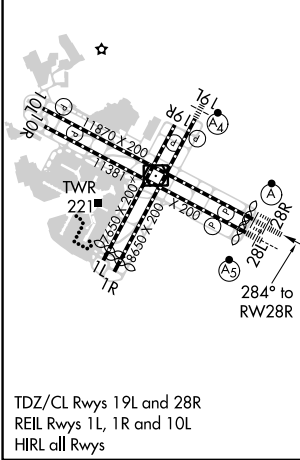
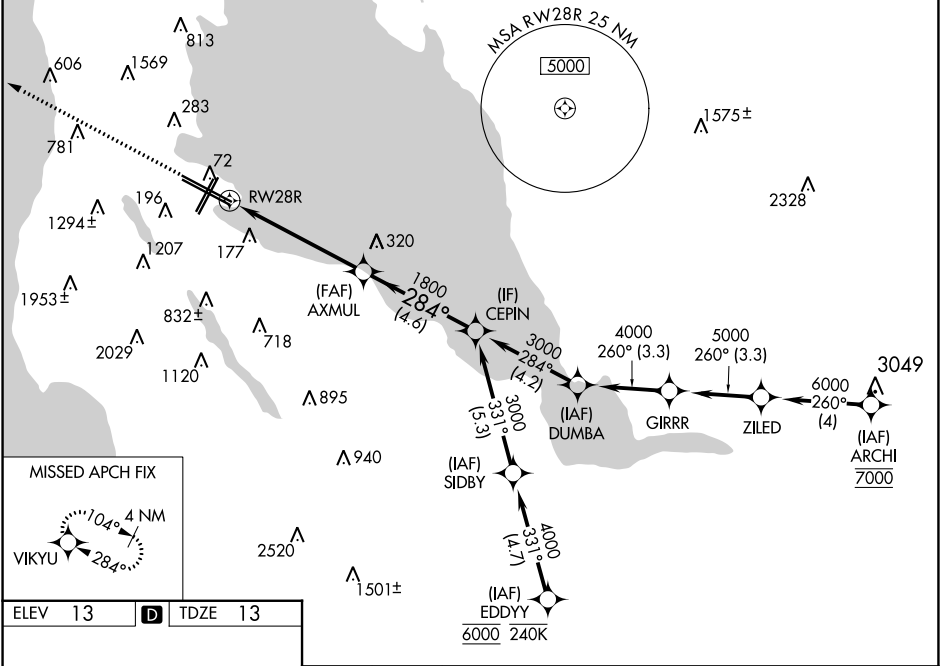
TDZ/CL Rwy 19L and 28R
 REIL Rwy 1L, 1R and 10L
 HIRL all Rwy

WAAS CH 48803 W28A	APP CRS 284°	Rwy Idg TDZE Apt Elev	11236 13 13
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RNAV (GPS) Z RWY 28R

SAN FRANCISCO INTL (SFO)

RNP APCH.		SAN FRANCISCO TOWER		GND CON	CLNC DEL	CPDLC
<p>▼ Circling NA to Rwys 10L, 10R, 19L, and 19R. Circling Rwy 1L, 1R NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 3°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1½ SM, increase LNAV Cat C/D visibility to 2 SM.</p>		<p>113.7 115.8 118.85</p>		<p>121.8</p>	<p>118.2</p>	
<p>▲ MISSED APPROACH: Climb to 3200 direct VIKYU and hold, continue climb-in-hold to 3200.</p>		<p>134.5 338.2</p>				
		<p>120.5 269.1</p>				



CATEGORY	A	B	C	D
LPV DA		213/18	200 (200-½)	
LNAV/VNAV DA		642-1⅓	629 (700-1⅓)	
LNAV MDA	760/24 747 (800-½)	760/40 747 (800-¾)	760-1¾	747 (800-1¾)
C CIRCLING	760-1 747 (800-1)	960-1¼ 947 (1000-1¼)	1560-3 1547 (1600-3)	NA

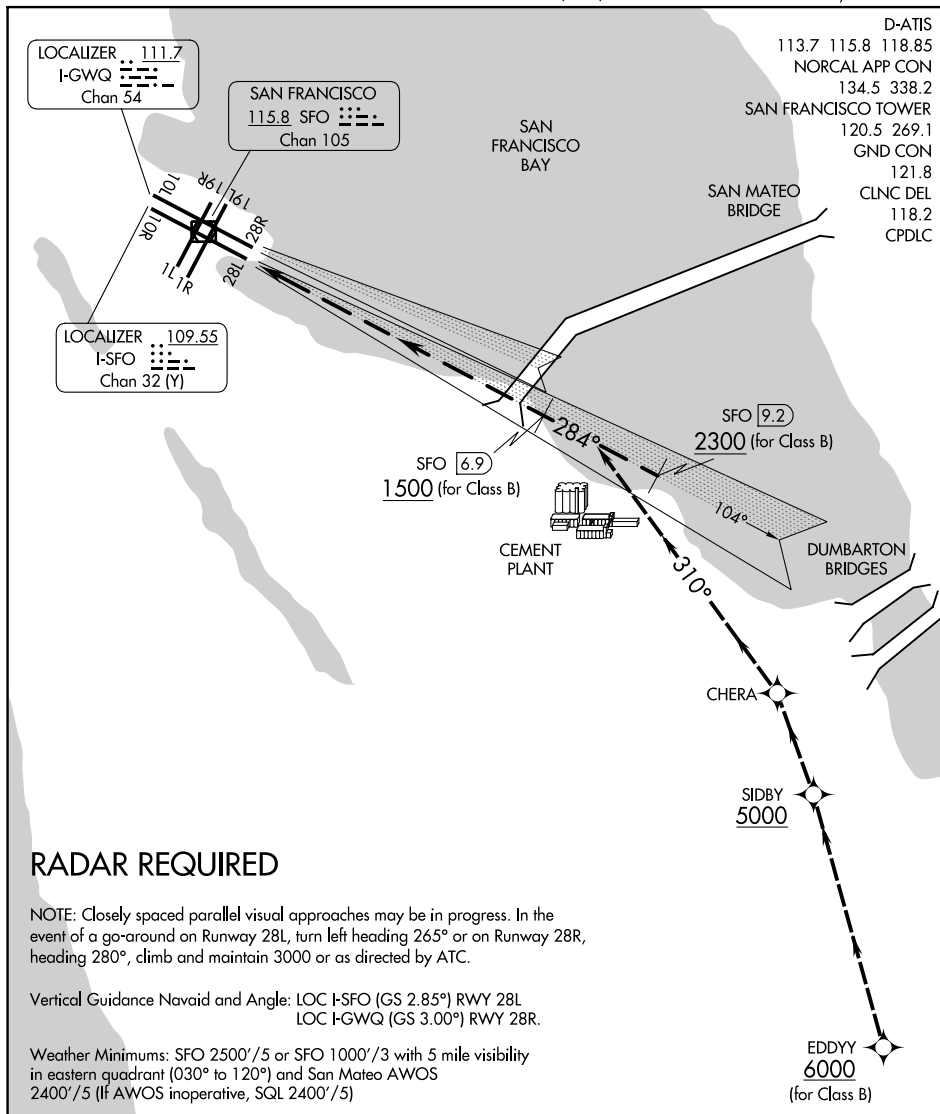
SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

TIPP TOE VISUAL RWY 28L/R

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



D-ATIS
113.7 115.8 118.85
NORCAL APP CON
134.5 338.2
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8
CLNC DEL
118.2
CPDLC

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

RADAR REQUIRED

NOTE: Closely spaced parallel visual approaches may be in progress. In the event of a go-around on Runway 28L, turn left heading 265° or on Runway 28R, heading 280°, climb and maintain 3000 or as directed by ATC.

Vertical Guidance Navaid and Angle: LOC I-SFO (GS 2.85°) RWY 28L
LOC I-GWQ (GS 3.00°) RWY 28R.

Weather Minimums: SFO 2500'/5 or SFO 1000'/3 with 5 mile visibility in eastern quadrant (030° to 120°) and San Mateo AWOS 2400'/5 (If AWOS inoperative, SQL 2400'/5)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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TIPP TOE VISUAL APPROACH RUNWAY 28L/R

At/above 6000 at EDDYY, proceed to SIDBY at/above 5000, north turn at SIDBY to CHERA. Runway 28L, from CHERA 310° heading to intercept the I-SFO localizer. Runway 28R, from CHERA 310° heading to intercept the I-GWQ localizer. In the event of a go-around on Runway 28L, turn left on heading 265°. For a go-around on Runway 28R, heading 280°, climb and maintain 3000 or as directed by ATC.

TIPP TOE VISUAL RWY 28L/R

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

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

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, 900-2¾.

²Category D, 800-2½.

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 12³

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.

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, 800-2½; 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, 1000-2¾; Category D, 1300-3.

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

COLUMBIA, CA

COLUMBIA (O22).....RNAV (GPS) Rwy 35
NA when local weather not available.
Categories A, B, 1100-2; Category C, 1100-3.

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NAME ALTERNATE MINIMUMS

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.

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, 900-2¼.

²Category E, 900-2¼.

³Category E, 900-2.

GRASS VALLEY, CA

NEVADA
COUNTY (GOO).....RNAV (GPS) Rwy 7
NA when local weather not available.
Category D, 800-2¼.

HAYWARD, CA

HAYWARD EXEC (HWD).....LOC/DME Rwy 28L
RNAV (GPS) Rwy 28L

NA when local weather not available.

NA when control tower closed.

Category D, 900-2¼.

HOLLISTER, CA

HOLLISTER
MUNI (CVH).....RNAV (GPS) Rwy 31
NA when local weather not available.
Category 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.

LITTLE RIVER, CA

LITTLE RIVER (LLR).....RNAV (GPS) Rwy 29
Category D, 900-2¼.

NAME ALTERNATE MINIMUMS

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.

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, 800-2¼.

³Category D, 800-2¼.

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, NA.

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

⁶Categories A, B, C, 1000-3.

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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, 800-2¼.
- 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) Y Rwy 1L⁴
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 A, B, C, D, 1300-5.
- ⁵Categories 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

METRO OAKLAND
INTL (OAK).....**ILS or LOC Rwy 12**¹
ILS or LOC Rwy 30¹
ILS or LOC/DME Rwy 28R¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 10R²
RNAV (GPS) Y Rwy 12²
RNAV (GPS) Y Rwy 28L²
RNAV (GPS) Y Rwy 28R²
RNAV (GPS) Y Rwy 30²
VOR Rwy 10R²

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

PALO ALTO, CA

PALO ALTO (PAO).....**RNAV (GPS) Rwy 31**
NA when control tower closed.

PETALUMA, CA

PETALUMA MUNI (O69).....**RNAV (GPS) Rwy 29**
NA when local weather not available.
Category B, 900-2.

NAME ALTERNATE MINIMUMS

PLACERVILLE, CA

PLACERVILLE (PVF).....**RNAV (GPS) Rwy 5**
NA when local weather not available.
Category B, 900-2.

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, 800-2¼.

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.

SACRAMENTO

MATHER (MHR).....**ILS Y or Y LOC Rwy 22L**¹²³
ILS Z or Z LOC Rwy 22L¹²³
RNAV (GPS) Rwy 4R⁴
RNAV (GPS) Rwy 22L²⁴
RNAV (GPS) Rwy 22R²⁴

- ¹NA when control tower closed.
- ²NA when local weather not available.
- ³LOC, Category D, 800-2¾; Category E, 800-2½.
- ⁴Category D, 800-2¾.

NAME ALTERNATE MINIMUMS

SALINAS, CA

SALINAS MUNI (SNS).....ILS Rwy 31¹
LOC Rwy 31¹²
RNAV (GPS) Rwy 8³
RNAV (GPS) Rwy 13⁴
RNAV (GPS) Y Rwy 31²
RNAV (GPS) Z Rwy 31
VOR Rwy 13⁵

NA when local weather not available.

¹NA when control tower closed.

²Category D, 1600-3.

³Category D, 1500-3.

⁴Category D, 1300-3.

⁵Category D, 900-2½.

SAN ANDREAS, CA

CALAVERAS CO-MAURY RASMUSSEN
FIELD (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.

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 10R⁴
RNAV (GPS) Y Rwy 19R⁷
RNAV (GPS) Z Rwy 28R⁸
RNAV (RNP) Z Rwy 10R⁹

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, 800-2½;

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, 1200-2; Categories C, D, 1200-3.

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, C, D, 1400-4.

⁸Category B, 1000-2; Category C, 1600-3.

⁹Categories 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.

NAME ALTERNATE

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.

SUSANVILLE, CA

SUSANVILLE
MUNI (SVE).....RNAV (GPS) Rwy 29
Categories A, B, 1700-2; Category C, 1700-3;
Category D, 2000-3.
NA when local weather not available.

TRUCKEE, CA

TRUCKEE-TAHOE
(TRK).....RNAV (GPS)-A¹
RNAV (GPS) Rwy 11²
RNAV (GPS) Rwy 20³

NA when local weather not available.

¹Categories A, B, 1600-2; Category C, 1800-3.

²Categories A, B, 1900-2; Category C, 1900-3.

³Category A, 1300-2; Category B, 1400-2;

Category C, 1800-3.

UKIAH, CA

UKIAH MUNI (UKI).....LOC Rwy 15¹
RNAV (GPS)-B²
RNAV (GPS) Rwy 15¹
VOR-A³

¹Categories A, B, 1700-2; Category C, 1700-3;

Category D, 2200-3.

²Categories A, B, 1500-2; Category C, 1600-3;

Category D, 2200-3.

³Categories A, B, 2800-2; Categories C, D, 2800-3.

VACAVILLE, CA

NUT TREE (VCB).....RNAV (GPS) Rwy 20¹²
VOR-A³

¹NA when local weather not available.

²Category C, 900-2½; Category D, 1400-3.

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

Category D, 1300-3.



NAME ALTERNATE MINIMUMS NAME ALTERNATE

VISALIA, CA

VISALIA

MUNI (VIS).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.

WATSONVILLE, CA

WATSONVILLE

MUNI (WVI).....RNAV (GPS) Rwy 2¹
VOR-A²³

¹Category D, 1000-3.

²NA when local weather not available.

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

22 FEB 2024 to 21 MAR 2024

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

24025

INSTRUMENT APPROACH PROCEDURE CHARTS


IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or RADAR vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow RADAR vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

ALTURAS, CA**ALTURAS MUNI (AAT)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 2 10APR08 (08101) (FAA)

DEPARTURE PROCEDURE:

Use BACHS DEPARTURE.

AMEDEE AAF (KAHC)**HERLONG, CA****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 2 30JAN20 (20030)

TAKEOFF MINIMUMS:

Rwy 9, std. w/min. climb of 350' per NM to 9500, or 4100-3 for VCOA.**Rwy 27**, std. w/min. climb of 390' per NM to 8500, or 4100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 9, climbing right turn on a heading between 086° CW to 266° from DER.**Rwy 27**, climbing left turn on a heading between 086° CW 266° from DER.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual Conditions to cross AMEDEE AAF at or above 8000 before proceeding on course.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ARCATA-EUREKA, CA

CALIFORNIA REDWOOD COAST—HUMBOLDT COUNTY (ACV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 12OCT17 (17285) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, std. w/min. climb of 360' per NM to 500 or 1100-2½ for VCOA.

Rwy 14, 400-2½ or std. w/min. climb of 382' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 1, 32, climbing left turn to intercept ACV R-250 to HOCUT INT and continue climb to MEA on V27.

Rwy 14, 19, climbing right turn to intercept ACV R-250 to HOCUT INT and continue climb to MEA on V27.

VCOA:

Rwy 1, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross California Redwood Coast-Humboldt County airport westbound at or above 1200 to intercept ACV R-250 to HOCUT INT and continue climb to MEA on V27.

TAKEOFF OBSTACLE NOTES:

Rwy 1, runway lights 10' from DER, 54' left and right of centerline, 1' AGL/209' MSL.

Fence beginning 150' from DER, 397' right of centerline, up to 9' AGL/217' MSL.

Tree, fence, pole beginning 222' from DER, 158' right of centerline, up to 260' MSL.

Tree 276' from DER, 491' left of centerline, 245' MSL.

Trees beginning 310' from DER, 198' left of centerline, up to 248' MSL.

Tree 383' from DER, 408' right of centerline, 316' MSL.

Trees beginning 385' from DER, 0' left of centerline, up to 179' AGL/325' MSL.

Trees beginning 423' from DER, 11' left of centerline, up to 118' AGL/260' MSL.

Trees beginning 583' from DER, 6' left of centerline, up to 178 AGL/278' MSL.

Trees beginning 1922' from DER, 179' right of centerline, up to 344' MSL.

Trees beginning 2291' from DER, 266' right of centerline, up to 124 AGL/356' MSL.

Tree 3390' from DER, 164' left of centerline, 150' AGL/335' MSL.

Trees beginning 3400' from DER, 108' left of centerline, up to 175' AGL/357' MSL.

Trees beginning 3478' from DER, 12' left of centerline, up to 187' AGL/364' MSL.

Tree 3602' from DER, 725' right of centerline, 358' MSL.

Trees beginning 3603' from DER, 1' right of centerline, up to 177' AGL/365' MSL.

Trees beginning 3714' from DER, 34' left of centerline, up to 192' AGL/369' MSL.

Trees beginning 3722' from DER, 51' left of centerline, up to 197' AGL/372' MSL.

Trees beginning 3763' from DER, 1' left of centerline, up to 202' AGL/375' MSL.

Tree 4016' from DER, 567' right of centerline, 367' MSL.

Trees beginning 4017' from DER, 67' right of centerline, up to 197' AGL/373' MSL.

Trees beginning 6044' from DER, 852' left of centerline, up to 163' AGL/379' MSL.

Tree 1.1 NM from DER, 48' right of centerline, 385' MSL.

Trees beginning 1.2 NM from DER, 1220' right of centerline, up to 416' MSL.

Trees beginning 1.7 NM from DER, 2648' right of centerline, up to 602' MSL.

Tree 1.8 NM from DER, 3460' right of centerline, 605' MSL.

Rwy 14, runway lights 9' from DER, 54' left and right of centerline, 1' AGL/223' MSL.

Tree 621' from DER, 591' left of centerline, 256' MSL.

Tree, antenna, pole, beginning 733' from DER, 378' left of centerline, up to 262' MSL.

Tree 1086' from DER, 716' right of centerline, 277' MSL.

Trees, beginning 1110' from DER, 717' right of centerline, up to 290' MSL.

Tree 1701' from DER, 860' left of centerline, 283' MSL.

Trees beginning 1843' from DER, 875' left of centerline, up to 307' MSL.

Trees, beginning 2568' from DER, 801' left of centerline, up to 321' MSL.

Trees beginning 3085' from DER, 565' left of centerline, up to 326' MSL.

Tree 3807' from DER, 1202' left of centerline, 374' MSL.

Trees, beginning 3827' from DER, 794' left of centerline, up to 392' MSL.

Trees, beginning 4152' from DER, 813' left of centerline, up to 420' MSL.

Trees, beginning 4514' from DER, 1245' left of centerline, up to 443' MSL.

Trees, beginning 4707' from DER, 880' left of centerline, up to 446' MSL.

Trees, beginning 5176' from DER, 1028' left of centerline, up to 447' MSL.

Trees, beginning 5712' from DER, 1337' left of centerline, up to 467' MSL.

Trees, beginning 1.1 NM from DER, 1618' left of centerline, up to 515' MSL.

Trees, beginning 1.2 NM from DER, 1929' left of centerline, up to 565' MSL.

Tree 1.7 NM from DER, 3238' left of centerline, 568' MSL.

Trees beginning 1.8 NM from DER, 1864' left of centerline, up to 588' MSL.

Rwy 19, runway lights 9' from DER, 55' left and right of centerline, 189' MSL.

Vegetation 15' from DER, 270' right of centerline, 191' MSL.

Tree 776' from DER, 696' right of centerline, 77' AGL/215' MSL.

Rwy 32, fence, beginning 91' from DER, 476' right of centerline, up to 196' MSL.

Fence 132' from DER, 221' left of centerline, 8' AGL/188' MSL.

Tree, fence, bush beginning 183' from DER, 202' left of centerline, up to 195' MSL.

Fence, beginning 268' from DER, 176' right of centerline, up to 13' AGL/197' MSL.

Obs light DME, NAVAIID, beginning 580' from DER, 258' right of centerline, up to 29' AGL/203' MSL.

Tree 1022' from DER, 624' right of centerline, 256' MSL.

Trees, beginning 1036' from DER, 448' right of centerline, up to 267' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ATWATER, CA

CASTLE (MER)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15DEC11 (11349) (FAA)

TAKEOFF MINIMUMS:

Rwy 13, std. w/ min. climb of 250' per NM to 2500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 13, climb heading 126° to 2500 before turning left. For climb in visual conditions, cross Castle Airport at or above 2200 before proceeding on course.

Rwy 31, climb heading 306° to 1100 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 13, tree 2539' from DER, 1005' right of centerline, 89' AGL/261' MSL.

Rwy 31, tree 1274' from DER, 829' left of centerline, 20' AGL/224' MSL.

Trees beginning 2909' from DER, 542' right of centerline, 65' AGL/269' MSL.

AUBURN, CA

AUBURN MUNI (AUN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 25JAN24 (24025) (FAA)

DEPARTURE PROCEDURE:

Use YUBBA DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 7, tree 98' from DER, 447' left of centerline, 1541' MSL.

Building, tree beginning 99' from DER, 234' right of centerline, up to 24' AGL/1553' MSL.

Tree 959' from DER, 241' right of centerline, 1578' MSL.

Tree 992' from DER, 431' right of centerline, 1602' MSL.

Trees beginning 1035' from DER, 139' right of centerline, up to 1614' MSL.

Trees beginning 1103' from DER, 244' right of centerline, up to 1587' MSL.

Trees beginning 1266' from DER, 263' right of centerline, up to 1676' MSL.

Pole, electrical system, trees beginning 1366' from DER, 253' right of centerline, up to 60' AGL/1679' MSL.

Trees beginning 1514' from DER, 56' right of centerline, up to 1681' MSL.

Tree 5369' from DER, 1805' left of centerline, 1684' MSL.

Trees beginning 5546' from DER, 1593' left of centerline, up to 1735' MSL.

Trees beginning 1 NM from DER, 1140' left of centerline, up to 1779' MSL.

Trees beginning 1.1 NM from DER, 1983' right of centerline, up to 1726' MSL.

Tree, pole beginning 1.3 NM from DER, 1113' right of centerline, up to 1773' MSL.

Trees beginning 1.4 NM from DER, 918' left of centerline, up to 1796' MSL.

Trees, transmission line, tank, building beginning 1.5 NM from DER, 372' left of centerline, up to 1801' MSL.

Trees beginning 1.6 NM from DER, 535' left of centerline, up to 1915' MSL.

Tree, traverse way beginning 1.7 NM from DER, 1523' left of centerline, up to 1859' MSL.

Electrical system, trees beginning 2.1 NM from DER, 2928' left of centerline, up to 62' AGL/2059' MSL.

Tree 2.2 NM from DER, 3991' left of centerline, 2151' MSL.

Trees beginning 2.3 NM from DER, 3015' left of centerline, up to 2105' MSL.

Tree 2.4 NM from DER, 4231' left of centerline, 1986' MSL.

Rwy 25, rising terrain 26' from DER, 286' right of centerline, 1496' MSL.

Trees beginning 31' from DER, 477' left of centerline, up to 1532' MSL.

Tree, rising terrain, fences, vertical structure, building beginning 89' from DER, 199' right of centerline, up to 1529' MSL.

Trees beginning 774' from DER, 419' right of centerline, up to 1538' MSL.

Tree 1023' from DER, 652' right of centerline, 1539' MSL.

Trees beginning 1678' from DER, 207' right of centerline, up to 1547' MSL.

BEALE AFB (KBAB)

MARYSVILLE, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 25JAN24 (24025) (USAF)

TAKEOFF MINIMUMS:

Rwy 33, 3400-3 or std w/min climb of 203'/NM to 3900.

DEPARTURE PROCEDURE:

Rwy 15, climb on a hdg between 100° CW to 325° from DER.

Rwy 33, climb on a hdg between 146° CW to 344° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 33, terrain 0' from DER, 500' right of centerline, 118' MSL.

Aircraft tail 129' from DER, 525' right of centerline, 16' AGL/134' MSL.

BECKWORTH, CA

NERVINO (O02)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 17OCT13 (13290) (FAA)

TAKEOFF MINIMUMS:

Rwys 8, 26, 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 8, 26, for climb in visual conditions: cross Nervino airport at or above 8300 before proceeding on course.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

BECKWOURTH, CA (CON'T)

NERVINO (O02) (CON'T)

TAKEOFF OBSTACLE NOTES:

- Rwy 8**, road 58' from DER, 469' right of centerline, 15' AGL/4920' MSL.
- Pole 310' from DER, 522' right of centerline, 49' AGL/4925' MSL.
- Pole 528' from DER, 522' right of centerline, 39' AGL/4924' MSL.
- Tree 1.47 NM from DER, 727' right of centerline, 100' AGL/5193' MSL.
- Tree 1.9 NM from DER, 2534' right of centerline, 100' AGL/5499' MSL.
- Bush 2.03 NM from DER, 2126' right of centerline, 4' AGL/5406' MSL.
- Rwy 26**, tree 5856' from DER, 1984' right of centerline, 100' AGL/5339' MSL.
- Tree 1.25 NM from DER, 2439' right of centerline, 100' AGL/5420' MSL.
- Tree 2.07 NM from DER, 3302' left of centerline, 100' AGL/5570' MSL.

BISHOP, CA

BISHOP (BIH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 29MAR18 (18088) (FAA)

TAKEOFF MINIMUMS:

- Rwy 8, 12, 17**, 9000-3 for VCOA.
- Rwy 26**, std. w/ min. climb of 280' per NM to 10400', or 9000-3 for VCOA.
- Rwys 30, 35**, std. w/ min. climb of 285' per NM to 10500', or 9000-3 for VCOA.

DEPARTURE PROCEDURE:

- Rwys 26, 30**, climbing right turn on heading 360, thence...
- Rwy 35**, climbing left turn on heading 290, thence...
- ...all aircraft intercept BIH R-322 to NIKOL INT/BIH 38.46 DME. Aircraft departing NIKOL on V244 westbound cross NIKOL at or above 13100; aircraft departing NIKOL on V381 southeast bound cross NIKOL at or above 13000; aircraft departing NIKOL on T298 westbound or T259 westbound cross NIKOL at or above 12200; all other aircraft cross NIKOL at or above 11000.

VCOA:

- All **Rwys**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Bishop airport at or above 13000' before proceeding on course.

TAKEOFF OBSTACLE NOTES:

- Rwy 26**, trees and bushes beginning 69' from DER, 150' right of centerline, up to 4197' MSL.
- Trees beginning 925' from DER, 32' left of centerline, up to 4167' MSL.
- Rwy 35**, trees beginning 238' from DER, 31' left of centerline, up to 4146' MSL.
- Trees beginning 215' from DER, 146' right of centerline, up to 4146' MSL.

BYRON, CA

BYRON (C83)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

- Rwy 23, NA** - obstacles.
- Rwy 30**, 200-1% or std. with a min. climb of 245' per NM to 300, or alternatively, with standard takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

DEPARTURE PROCEDURE:

- Rwy 5**, climbing left turn heading 010°, thence...
- Rwy 12**, climbing left turn heading 360°, thence...
- Rwy 30**, climbing right turn heading 065°, thence...
- ...on LIN VOR/DME R-227 to LIN VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

- Rwy 5**, bush 17' from DER, 67' right of centerline, 6' AGL/52' MSL.
- Rwy 12**, multiple trees and bush beginning 240' from DER, 286' right of centerline, up to 39' AGL/76' MSL.
- Rwy 30**, multiple poles, building, and terrain beginning 66' from DER, 228' left of centerline, up to 65' AGL/225' MSL.
- Multiple poles beginning 949' from DER, 28' right of centerline, up to 42' AGL/103' MSL.

CHICO, CA

CHICO RGNL (CIC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 21MAY20 (23054) (FAA)

DEPARTURE PROCEDURE:

- Rwys 13L/R**, climbing right turn heading 230° to intercept V-23/T-261.
- Rwys 31L/R**, climbing left turn heading 230° to intercept V-23/T-261.

TAKEOFF OBSTACLE NOTES:

- Rwy 13L**, terrain 298' from DER, 537' left of centerline, 216' MSL.
- Trees, pole beginning 947' from DER, 560' left of centerline, up to 241' MSL.
- Rwy 13R**, vehicles on road beginning at DER, left and right of centerline, up to 225' MSL.
- Rwy 31L**, vehicles on road beginning at DER, left and right of centerline, up to 235' MSL.
- Tower 611' from DER, 349' right of centerline, 35' AGL/267' MSL.
- Rwy 31R**, tree 1124' from DER, 612' right of centerline, 282' MSL.
- Tree 1363' from DER, 768' left of centerline, 280' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

CLOVERDALE, CA

CLOVERDALE MUNI (O60)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17JUN21 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, 300-1 w/min. climb of 475' per NM to 1400, or 3900-3 for VCOA.

Rwy 32, 3900-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 14, climb on a heading between 120° CW to 150° from DER to 4500 before proceeding on course.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Cloverdale Muni airport at or above 4000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 38' from DER, 411' right of centerline, 305' MSL.

Vegetation 61' from DER, 307' left of centerline, 276' MSL.

Vegetation beginning 80' from DER, 90' left of centerline, up to 9' AGL/279' MSL.

Trees beginning 95' from DER, 18' right of centerline, up to 43' AGL/310' MSL.

Tree 391' from DER, 29' left of centerline, 31' AGL/291' MSL.

Tree 396' from DER, 154' left of centerline, 40' AGL/298' MSL.

Tree 416' from DER, 80' left of centerline, 37' AGL/299' MSL.

Trees beginning 419' from DER, 20' left of centerline, up to 43' AGL/303' MSL.

Tree 448' from DER, 207' left of centerline, 58' AGL/329' MSL.

Tree, pole beginning 611' from DER, 30' right of centerline, up to 314' MSL.

Trees, ag equip beginning 662' from DER, 20' left of centerline, up to 369' MSL.

Trees beginning 1046' from DER, 325' right of centerline, up to 352' MSL.

Trees, stack, buildings beginning 1483' from DER, 41' right of centerline, up to 373' MSL.

Buildings, pipeline pipes, poles, trees, ag equip, transmission lines beginning 1907' from DER, 8' right of centerline, up to 142' AGL/427' MSL.

Ag equip, tree beginning 2902' from DER, 37' left of centerline, up to 5' AGL/371' MSL.

Tree 2970' from DER, 291' left of centerline, 48' AGL/380' MSL.

Ag equip beginning 2979' from DER, 87' left of centerline, up to 5' AGL/386' MSL.

Antenna, trees, ag equip, pole beginning 3082' from DER, 70' left of centerline, up to 19' AGL/403' MSL.

Tree, buildings beginning 4785' from DER, 503' left of centerline, up to 31' AGL/426' MSL.

Tree 4878' from DER, 415' left of centerline, 37' AGL/428' MSL.

Tree 4916' from DER, 511' left of centerline, 52' AGL/446' MSL.

Ag equip beginning 1 NM from DER, 1806' right of centerline, up to 6' AGL/448' MSL.

Tree 1 NM from DER, 1969' right of centerline, 496' MSL.

Trees beginning 1.1 NM from DER, 1127' right of centerline, up to 534' MSL.

Tree 1.5 nm from DER, 2973' right of centerline, 549' MSL.

Tree 1.6 NM from DER, 2150' right of centerline, 529' MSL.

Trees beginning 1.6 NM from DER, 1753' right of centerline, up to 719' MSL.

Trees beginning 1.7 NM from DER, 393' right of centerline, up to 814' MSL.

Trees beginning 2.2 NM from DER, 8' right of centerline, up to 772' MSL.

Tree 2.2 NM from DER, 59' left of centerline, 620' MSL.

Tree 2.5 NM from DER, 1452' right of centerline, 780' MSL.

Rwy 32, tree 32' from DER, 497' right of centerline, 288' MSL.

Ag equip 35' from DER, 371' left of centerline, 6' AGL/283' MSL.

Tree 51' from DER, 252' left of centerline, 297' MSL.

Tree, fences beginning 71' from DER, 67' right of centerline, up to 313' MSL.

Trees, ag equip, fences beginning 96' from DER, 62' left of centerline, up to 30' AGL/322' MSL.

Tree 419' from DER, 477' right of centerline, 329' MSL.

Tree 450' from DER, 372' left of centerline, 341' MSL.

Trees beginning 806' from DER, 505' right of centerline, up to 331' MSL.

Trees beginning 989' from DER, 293' left of centerline, up to 363' MSL.

Tree 2915' from DER, 965' right of centerline, 349' MSL.

Tree, building beginning 2967' from DER, 1241' left of centerline, up to 393' MSL.

Trees beginning 3274' from DER, 173' right of centerline, up to 374' MSL.

Trees beginning 1.6 NM from DER, 292' right of centerline, up to 581' MSL.

Tree, building beginning 2.2 NM from DER, 221' right of centerline, up to 652' MSL.

Tree 2.3 NM from DER, 276' right of centerline, 672' MSL.

Tank 2.4 NM from DER, 3970' left of centerline, 680' MSL.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

COALINGA, CA

NEW COALINGA MUNI (C80)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05OCT23 (23278) (FAA)

TAKEOFF MINIMUMS:

Rwys 1, 19, NA-Environmental.

DEPARTURE PROCEDURE:

Rwys 12, 30, use AVENAL DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 12, vehicle on road beginning 9' from DER, 362' left of centerline, up to 614' MSL. NAVAID 15' from DER, 125' right of centerline, 2' AGL/603' MSL.

Vehicle on road beginning 76' from DER, 506' right of centerline, up to 614' MSL.

Rwy 30, NAVAID 14' from DER, 125' left of centerline, 1' AGL/626' MSL.

Terrain 43' from DER, 472' right of centerline, 627' MSL.

Vehicle on road beginning 145' from DER, 456' right of centerline, up to 645' MSL.

Vehicle on road 202' from DER, 446' left of centerline, 643' MSL.

Vehicle on road 330' from DER, 378' right of centerline, 646' MSL.

Vehicle on road beginning 384' from DER, 1' left of centerline, up to 644' MSL.

Vehicle on road 532' from DER, 362' right of centerline, 647' MSL.

Vehicle on road beginning 655' from DER, on and left of centerline, up to 646' MSL.

Vehicle on road beginning 679' from DER, on and right of centerline, up to 648' MSL.

Vehicle on road beginning 731' from DER, 113' left of centerline, up to 648' MSL.

COLUMBIA, CA

COLUMBIA (O22)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JAN20 (20030) (FAA)

TAKEOFF MINIMUMS:

Rwys 11, 29, NA - Environmental.

Rwy 35, NA - ATC.

DEPARTURE PROCEDURE:

Rwy 17, use FICHU RNAV DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 17, bush 31' from DER, 196' right of centerline, 2083' MSL.

Tree 148' from DER, 387' right of centerline, 2108' MSL.

Trees beginning 180' from DER, 287' left of centerline, up to 2126' MSL.

Tree 262' from DER, 527' right of centerline, 2163' MSL.

Trees beginning 354' from DER, 240' left of centerline, up to 2127' MSL.

Tree, rd (n), pole, grd, bush beginning 414' from DER, 46' right of centerline, up to 2188' MSL.

Tree 456' from DER, 325' left of centerline, 2130' MSL.

Trees beginning 492' from DER, 109' left of centerline, up to 2133' MSL.

Trees beginning 725' from DER, 26' left of centerline, up to 2171' MSL.

Trees beginning 1260' from DER, 56' left of centerline, up to 2181' MSL.

Tree 1527' from DER, 893' right of centerline, 2205' MSL.

Tree 1619' from DER, 860' right of centerline, 2220' MSL.

Trees beginning 1664' from DER, 896' right of centerline, up to 2238' MSL.

Tree 2152' from DER, 982' left of centerline, 2212' MSL.

Tree 2195' from DER, 988' left of centerline, 2262' MSL.

Tree 2195' from DER, 987' left of centerline, 2273' MSL.

Tree, tower beginning 5842' from DER, 410' left of centerline, up to 2339' MSL.

Tree 5936' from DER, 557' left of centerline, 2239' MSL.

COLUSA, CA

COLUSA COUNTY (O08)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-B 20APR23 (23110) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climb on heading 137° to 1800 before proceeding on course.

Rwy 31, climbing left turn direct ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, vehicles on road 1' from DER, 350' right of centerline, up to 60' MSL.

Vehicles on road, fence, sign beginning 23' from DER, 233' right of centerline, up to 62' MSL.

Vehicles on road, vegetation beginning 39' from DER, 455' left of centerline, up to 67' MSL.

Vehicles on road beginning 95' from DER, 472' left of centerline, up to 68' MSL.

Tree, fence, vehicle on road beginnings 139' from DER, 347' left of centerline, up to 77' MSL.

Buildings, fence, vehicle on road beginning 194' from DER, 196' right of centerline, up to 14' AGL/63' MSL.

Building, vehicles on roads, trees beginning 437' from DER, 57' right of centerline, up to 31' AGL/80' MSL.

Trees beginning 803' from DER, 145' right of centerline, up to 103' MSL.

Building 1477' from DER, 429' left of centerline, 61' AGL/107' MSL.

Rwy 31, building, fence beginning 92' from DER, 253' left of centerline, up to 13' AGL/63' MSL.

Buildings beginning 168' from DER, 444' right of centerline, up to 22' AGL/70' MSL.

Tree 239' from DER, 533' left of centerline, 90' MSL.

Building 358' from DER, 323' right of centerline, 22' AGL/71' MSL.

CONT

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

COLUSA, CA (CON'T)

COLUSA COUNTY (O08) (CON'T)

- Rwy 31 (CON'T)**, building, tank beginning 369' from DER, 413' right of centerline, up to 27' AGL/76' MSL.
Vehicles on road beginning 486' from DER, left and right of centerline, up to 15' AGL/64' MSL.
Tree 820' from DER, 473' left of centerline, 91' MSL.
Tower 1396' from DER, 91' right of centerline, 55' AGL/105' MSL.
Tree 2836' from DER, 195' right of centerline, 120' MSL.

CONCORD, CA

BUCHANAN FLD (CCR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22JUN17 (21112) (FAA)

TAKEOFF MINIMUMS:

- Rwys 1L/R**, std. w/min. climb of 330' per NM to 1000 or 3700-3 for VCOA.
Rwy 14L/R, std. w/min. climb of 420' per NM to 2700 or 3700-3 for VCOA.
Rwys 19L/R, std. w/min. climb of 490' per NM to 3900 or 3700-3 for VCOA.
Rwys 32L/R, std. w/min. climb of 330' per NM to 1000 or 3700-3 for VCOA.

DEPARTURE PROCEDURE:

- Rwys 1L/R, 14L/R, 19L/R**, climbing left turn direct CCR VOR/DME, thence...
Rwys 32L/R, climbing right turn direct CCR VOR/DME, thence...
...aircraft departing on CCR VOR/DME R-150 clockwise R-110, climb on course.
All others, climb in CCR VOR/DME holding pattern (hold N, left turns, 191° inbound) to cross CCR VOR/DME at or above 3400 before proceeding on course.

VCOA:

- All Rwys**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Buchanan Fld airport at or above 3600 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

- Rwy 1L**, fence 116' from DER, 1' right of centerline, 29' MSL.
Building 639' from DER, 381' right of centerline, 25' AGL/48' MSL.
Vegetation 675' from DER, 96' left of centerline, 38' MSL.
Tree and poles beginning 1261' from DER, 19' right of centerline, up to 78' MSL.
Flagpole 1520' from DER, 753' left of centerline, 71' MSL.
Tree, camera, and general utility beginning 1860' from DER, 48' right of centerline, up to 98' MSL.
Pole 1906' from DER, 120' left of centerline, 51' AGL/72' MSL.
Sign 1996' from DER, 812' left of centerline, 78' MSL.
Tree 2392' from DER, 8' left of centerline, 83' MSL.
Rwy 1R, pole 1551' from DER, 97' right of centerline, 43' AGL/67' MSL.
Pole 1864' from DER, 357' right of centerline, 96' MSL.
Tree 1927' from DER, 222' right of centerline, 131' MSL.
Tree 2110' from DER, 981' right of centerline, 133' MSL.
Rwy 14L, vehicles on road and fences beginning 82' from DER, 29' left of centerline, up to 40' MSL.
Building and trees beginning 731' from DER, 191' left of centerline, up to 51' MSL.
Trees and buildings beginning 840' from DER, 93' left of centerline, up to 77' MSL.
Trees, poles, and buildings beginning 942' from DER, 13' left of centerline, up to 102' MSL.
Trees, buildings, and poles beginning 1116' from DER, 10' right of centerline, up to 40' AGL/71' MSL.
Tree 1465' from DER, 112' right of centerline, 73' MSL.
Trees beginning 1496' from DER, 121' right of centerline, up to 84' MSL.
Trees beginning 1648' from DER, 62' right of centerline, up to 91' MSL.
Trees and building beginning 1750' from DER, 30' left of centerline, up to 105' MSL.
Tree 2570' from DER, 93' right of centerline, 92' MSL.
Buildings beginning 5413' from DER, 99' left of centerline, up to 177' MSL.
Building 5456' from DER, 138' left of centerline, 146' AGL/179' MSL.
Rwy 14R, windsock 411' from DER, 451' right of centerline, 31' AGL/51' MSL.
Control tower 1140' from DER, 315' right of centerline, 61' AGL/84' MSL.
Electrical system, tree, pole, and antenna beginning 1140' from DER, 167' right of centerline, up to 98' MSL.
Tree 2744' from DER, 886' left of centerline, 102' MSL.
Building 3149' from DER, 946' right of centerline, 92' AGL/125' MSL.
Buildings beginning 3253' from DER, 846' right of centerline, up to 103' AGL/136' MSL.
Rwy 19L, tree 2132' from DER, 376' left of centerline, 90' MSL.
Tree 2257' from DER, 27' left of centerline, 97' MSL.
Tree 2543' from DER, 384' right of centerline, 87' MSL.
Tree 3111' from DER, 946' right of centerline, 106' MSL.
Rwy 19R, terrain 43' from DER, 397' left of centerline, 25' MSL.
Fence 123' from DER, 502' left of centerline, 30' MSL.
Tree 603' from DER, 489' right of centerline, 44' MSL.
Pole and trees beginning 844' from DER, 152' right of centerline, up to 94' MSL.
Tree 1023' from DER, 81' left of centerline, 59' MSL.
Pole and trees beginning 1201' from DER, 568' left of centerline, up to 77' MSL.
Building and trees beginning 1275' from DER, 114' left of centerline, up to 97' MSL.
Tree 2129' from DER, 447' right of centerline, 106' MSL.
Tree 2755' from DER, 216' left of centerline, 108' MSL.
Rwy 32L, building 7' from DER, 321' left of centerline, 18' AGL/35' MSL.
Vehicles on road and hangar beginning 259' from DER, 300' left of centerline, up to 37' MSL.
Vehicles on road beginning 560' from DER, 3' right of centerline, up to 34' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

CONCORD, CA (CON'T) BUCHANAN FLD (CON'T)

Rwy 31L (CON'T), vehicles on road 627' from DER, 609' left of centerline, 38' MSL.

Vehicles on road beginning 631' from DER, 63' left of centerline, up to 38' MSL.

Building 633' from DER, 253' right of centerline, 17' AGL/35' MSL.

Vehicles on road 699' from DER, 8' right of centerline, 38' MSL.

Vehicles on road beginning 715' from DER, 37' right of centerline, up to 39' MSL.

Vehicles on road beginning 720' from DER, 2' left of centerline, up to 39' MSL.

Vehicles on road beginning 730' from DER, 137' right of centerline, up to 40' MSL.

Vehicles on road beginning 751' from DER, 216' right of centerline, up to 41' MSL.

Vehicles on road beginning 792' from DER, 493' right of centerline, up to 42' MSL.

Vehicles on road beginning 798' from DER, on centerline, up to 42' MSL.

Tree 824' from DER, 135' left of centerline, 40' MSL.

Vehicles on road beginning 891' from DER, 488' right of centerline, up to 43' MSL.

Vehicles on road 920' from DER, 642' right of centerline, 44' MSL.

Transmission towers beginning 6014' from DER, 1332' left of centerline, up to 173' MSL.

Tank 1 NM from DER, 1927' right of centerline, 213' MSL.

Chimney 1.4 NM from DER, 2458' right of centerline, 355' AGL/378' MSL.

Refinery 1.6 NM from DER, 2934' right of centerline, 308' AGL/322' MSL.

Rwy 32R, terrain 81' from DER, 481' right of centerline, 21' MSL.

Vehicles on road 559' from DER, 3' right of centerline, 34' MSL.

Vehicles on road 585' from DER, 496' left of centerline, 34' MSL.

Building 632' from DER, 246' left of centerline, 35' MSL.

Building 653' from DER, 236' right of centerline, 41' MSL.

Flagpole, signs, and vehicles on road beginning 654' from DER, 55' right of centerline, up to 21' AGL/43' MSL.

Vehicles on road beginning 677' from DER, 491' left of centerline, up to 38' MSL.

Vehicles on road beginning 714' from DER, 374' left of centerline, up to 39' MSL.

Vehicles on road beginning 730' from DER, 243' left of centerline, up to 40' MSL.

Vehicles on road and trees beginning 750' from DER, 6' left of centerline, up to 41' MSL.

Vehicles on road beginning 820' from DER, 285' right of centerline, up to 45' MSL.

Vehicles on road beginning 824' from DER, 234' right of centerline, up to 47' MSL.

Vehicles on road 828' from DER, 624' right of centerline, 48' MSL.

Vehicles on road beginning 829' from DER, on centerline, up to 50' MSL.

Vehicles on road beginning 867' from DER, 43' left of centerline, up to 42' MSL.

Vehicles on road 899' from DER, 11' left of centerline, 43' MSL.

Vehicles on road beginning 932' from DER, 269' right of centerline, up to 52' MSL.

Agricultural equipment 2109' from DER, 600' right of centerline, 78' AGL/99' MSL.

Pole 3700' from DER, 1431' right of centerline, up to 40' AGL/150' MSL.

Pole 4067' from DER, 1531' right of centerline, 43' AGL/161' MSL.

Tank 4527' from DER, 1675' right of centerline, 57' AGL/170' MSL.

Transmission tower 6013' from DER, 1840' left of centerline, 173' MSL.

Tank 1 NM from DER, 1423' right of centerline, 126' AGL/213' MSL.

Chimney 1.4 NM from DER, 1954' right of centerline, 355' AGL/378' MSL.

Refinery 1.6 NM from DER, 2429' right of centerline, 308' AGL/322' MSL.

CRESCENT CITY, CA

JACK MC NAMARA FLD (CEC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 03JAN19 (22139) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, 300-2¼ or std. w/min. climb of 254' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2200' prior to DER.

Rwy 18, 300-1 or std. w/min. climb of 308' per NM to 400.

Rwy 36, 300-1 or std. w/min. climb of 443' per NM to 300.

DEPARTURE PROCEDURE:

Rwys 12, 18, climbing right turn, thence...

Rwys 30, 36, climbing left turn, thence...

...Climb direct CEC VORTAC. Aircraft departing CEC R-144 CW R-350 climb on course. All others continue climb in CEC VORTAC holding pattern (hold south, left turn, 346° inbound) to cross CEC VORTAC at or above:

R-351 CW R-048, 2900;

R-049 CW R-113, 4300;

R-114 CW R-143, 2900.

TAKEOFF OBSTACLE NOTES:

Rwy 12, terrain 7' from DER, 6' right of centerline, 54' MSL.

Terrain 9' from DER, 15' left of centerline, 54' MSL.

NAVAID and tree beginning 12' from DER, 117' left of centerline, up to 4' AGL/57' MSL.

Trees 798' from DER, 378' left of centerline, 149' MSL.

Trees beginning 828' from DER, 437' left of centerline, up to 151' MSL.

Tree 1078' from DER, 390' right of centerline, 101' MSL.

Trees beginning 1162' from DER, 75' left of centerline, up to 163' MSL.

Trees beginning 1185' from DER, 156' right of centerline, up to 123' MSL.

Tree and pole beginning 1332' from DER, 215' right of centerline, up to 149' MSL.

Trees beginning 1458' from DER, 2' left of centerline, up to 169' MSL.

Tree and pole beginning 1526' from DER, 93' right of centerline, up to 150' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

CRESCENT CITY, CA (CON'T)

JACK MC NAMARA FLD (CEC) (CON'T)

Rwy 12 (CON'T), trees beginning 1914' from DER, 83' right of centerline, up to 152' MSL.

Trees beginning 2058' from DER, 155' right of centerline, up to 156' MSL.

Trees beginning 2353' from DER, 182' right of centerline, up to 159' MSL.

Trees beginning 2549' from DER, 604' right of centerline, up to 173' MSL.

Trees beginning 2656' from DER, 108' right of centerline, up to 175' MSL.

Trees beginning 2986' from DER, 73' right of centerline, up to 189' MSL.

Tree 5151' from DER, 211' right of centerline, 216' MSL.

Tree 5184' from DER, 47' left of centerline, 195' MSL.

Antenna 1.8 NM from DER, 2439' left of centerline, 320' AGL/333' MSL.

Rwy 18, terrain 27' from DER, 12' left of centerline, 52' MSL.

Structure 35' from DER, 113' right of centerline, 7' AGL/57' MSL.

Structure 35' from DER, 116' left of centerline, 4' AGL/54' MSL.

Trees beginning 183' from DER, 384' right of centerline, up to 59' MSL.

Vehicles on road 319' from DER, 570' left of centerline, 60' MSL.

Tree 412' from DER, 166' left of centerline, 64' MSL.

Trees beginning 445' from DER, 188' left of centerline, up to 66' MSL.

Trees beginning 543' from DER, 411' left of centerline, up to 68' MSL.

Terrain 4897' from DER, 1653' right of centerline, 202' MSL.

Terrain 4973' from DER, 1722' right of centerline, 242' MSL.

Rwy 30, NAVAID and terrain beginning 4' from DER, 5' right of centerline, up to 1' AGL/58' MSL.

Trees beginning 29' from DER, 374' right of centerline, up to 65' MSL.

Tree 153' from DER, 332' left of centerline, 65' MSL.

Tree 164' from DER, 439' left of centerline, 73' MSL.

Rwy 36, terrain 6' from DER, 317' left of centerline, 77' MSL.

Tree 104' from DER, 467' right of centerline, 77' MSL.

Tree 143' from DER, 201' left of centerline, 84' MSL.

Tree and vegetation beginning 185' from DER, 92' right of centerline, up to 86' MSL.

Tree and vegetation beginning 405' from DER, 197' right of centerline, up to 97' MSL.

Tree 663' from DER, 30' left of centerline, 86' MSL.

Tree 762' from DER, 97' left of centerline, 94' MSL.

Tree 791' from DER, 155' left of centerline, 96' MSL.

Tree 843' from DER, 227' left of centerline, 105' MSL.

Trees beginning 981' from DER, 100' left of centerline, up to 117' MSL.

Trees beginning 1081' from DER, 35' left of centerline, up to 135' MSL.

Tree 1135' from DER, 226' right of centerline, 104' MSL.

Tree 1273' from DER, 60' right of centerline, 111' MSL.

Trees beginning 1352' from DER, 100' right of centerline, up to 112' MSL.

Trees beginning 1550' from DER, 25' right of centerline, up to 129' MSL.

Tree 1629' from DER, 425' left of centerline, 149' MSL.

Trees beginning 1654' from DER, 473' left of centerline, up to 151' MSL.

Trees beginning 1824' from DER, 192' left of centerline, up to 159' MSL.

Trees beginning 1961' from DER, 78' left of centerline, up to 164' MSL.

Trees beginning 2056' from DER, 978' right of centerline, up to 150' MSL.

Tree 2322' from DER, 757' right of centerline, 155' MSL.

Trees beginning 2322' from DER, 35' right of centerline, up to 176' MSL.

Tree 2590' from DER, 908' right of centerline, 179' MSL.

Tree 2591' from DER, 1044' right of centerline, 189' MSL.

Trees beginning 2644' from DER, 367' right of centerline, up to 192' MSL.

Trees beginning 2696' from DER, 70' right of centerline, up to 195' MSL.

Trees beginning 2928' from DER, 135' left of centerline, up to 174' MSL.

Trees beginning 2933' from DER, 37' right of centerline, up to 196' MSL.

Trees beginning 3318' from DER, 75' left of centerline, up to 181' MSL.

Trees beginning 3587' from DER, 132' left of centerline, up to 182' MSL.

DAVIS, CA

UNIVERSITY (EDU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 07MAY09 (09127) (FAA)

DEPARTURE PROCEDURE:

Rwy 17, climbing right turn via heading 200° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course.

Rwy 35, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17, trees beginning 1353' from DER, 31' right of centerline, up to 40' AGL/109' MSL.

Rwy 35, tree 24' from DER, 433' left of centerline, 40' AGL/104' MSL.

Vehicle 288' from DER, on centerline, 15' AGL/74' MSL.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

DAVIS/WOODLAND/WINTERS, CA

YOLO COUNTY (DWA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 19JUL18 (18200) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, climb heading 164° to 2200 before turning right.

Rwy 34, climb heading 344° to 1500 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 16, tree 462' from DER, 543' right of centerline, 139' MSL.

Tree 733' from DER, 566' right of centerline, 147' MSL.

Trees beginning 1182' from DER, 434' left of centerline, up to 195' MSL.

Tree 2760' from DER, 217' right of centerline, 197' MSL.

Rwy 34, tree 367' from DER, 574' right of centerline, 135' MSL.

Tree, pole beginning 544' from DER, 473' left of centerline, up to 166' MSL.

Tree 1010' from DER, 541' left of centerline, 206' MSL.

EUREKA, CA

MURRAY FLD (EKA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 27AUG09 (21196) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/min. climb of 465' per NM to 1800 or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 12 climbing right turn heading 265° to intercept V27. For climb in visual conditions: cross Murray Fld airport at or above 3700 before proceeding on course.

Rwy 30, climbing left turn heading 265° to intercept V27.

TAKEOFF OBSTACLE NOTES:

Rwy 12, bush 50' from DER, 82' left of centerline, 6' AGL/16' MSL.

Multiple trees beginning 1.5 NM from DER, 2993' left of centerline.

Multiple trees beginning 1.6 NM from DER, 2318' right of centerline.

Rwy 30, multiple trees, beginning 443' from DER, 389' right of centerline, up to 93' AGL/103' MSL.

Tree 664' from DER, 587' left of centerline, 46' AGL/56' MSL.

Pole 753' from DER, 155' right of centerline 27' AGL/ 37' MSL.

Railroad 786' from DER, 4' left of centerline 23' AGL/31' MSL.

Road beginning 602' from DER, 4' left of centerline up to 15' AGL/23' MSL.

Bush 566' from DER, 69' left of centerline, 8' AGL/18' MSL.

FIREBAUGH, CA

FIREBAUGH (F34)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20SEP12 (12264) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climbing right turn heading 134° to intercept the PXN VORTAC R-061 to MENDO INT. Aircraft departing MENDO INT heading 230° CW 150°, climb on course. All others, climb in MENDO INT holding pattern (hold NE, right turns, 241° inbound) to cross MENDO INT at or above 3000 before proceeding on course.

Rwy 30, climbing left turn heading 180° to intercept PXN VORTAC R-061 to PXN VORTAC, continue climb in PXN VORTAC holding pattern (SW, right turns, 049° inbound) to cross PXN VORTAC at or above airway MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 30, poles beginning 921' from DER, 525' left of centerline, up to 65' AGL/203' MSL.

Elevator 1941' from DER, 739' right of centerline, 97' AGL/242' MSL.

FORTUNA, CA

ROHNERVILLE (FOT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 23OCT86 (86296) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, NA.

DEPARTURE PROCEDURE:

Climb direct FOT VORTAC. Continue climb in holding pattern (hold N, right turns, 161° inbound) to cross FOT VORTAC at or above 3000.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

FRESNO, CA

FRESNO CHANDLER EXEC (FCH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10OCT19 (21168) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climb on a heading between 101° CW to 290° from DER.

Rwy 30, climb on a heading between 111° CW to 338° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 12, sign 9' from DER, 125' left of centerline, 3' AGL/282' MSL.

Pole, traverse way, fence, vegetation, trees beginning 32' from DER, 125' right of centerline, up to 20' AGL/300' MSL.

Tree 94' from DER, 310' right of centerline, 317' MSL.

Trees, traverse way, vegetation, fence beginning 95' from DER, 60' right of centerline, up to 323' MSL.

Trees, poles, traverse ways, fence, transmission line, building beginning 154' from DER, right of centerline, up to 326' MSL.

Vegetation, fence beginning 250' from DER, 14' left of centerline, up to 292' MSL.

Trees, vegetation, traverse way beginning 344' from DER, 14' left of centerline, up to 294' MSL.

Traverse way, tree beginning 390' from DER, 10' left of centerline, up to 296' MSL.

Pole, trees, vegetation, traverse way beginning 408' from DER, 9' left of centerline, up to 31' AGL/311' MSL.

Trees, poles, transmission line, building beginning 476' from DER, 93' right of centerline, up to 341' MSL.

Trees, traverse ways, vegetation beginning 499' from DER, 47' left of centerline, up to 323' MSL.

Trees, poles, traverse way, transmission line, building beginning 615' from DER, 36' left of centerline, up to 332' MSL.

Trees, poles, buildings beginning 630' from DER, 4' right of centerline, up to 346' MSL.

Trees beginning 904' from DER, 15' left of centerline, up to 340' MSL.

Trees, poles beginning 934' from DER, 38' left of centerline, up to 346' MSL.

Trees, pole beginning 966' from DER, 7' right of centerline, up to 347' MSL.

Poles, tree beginning 1093' from DER, 263' left of centerline, up to 63' AGL/348' MSL.

Trees, poles beginning 1118' from DER, 12' left of centerline, up to 349' MSL.

Trees, poles beginning 1133' from DER, 2' right of centerline, up to 355' MSL.

Trees, poles beginning 1349' from DER, 13' left of centerline, up to 363' MSL.

Trees, pole beginning 1640' from DER, 88' left of centerline, up to 372' MSL.

Trees beginning 1756' from DER, 57' left of centerline, up to 375' MSL.

Trees beginning 1816' from DER, 31' right of centerline, up to 376' MSL.

Tree 3089' from DER, 146' left of centerline, 377' MSL.

Tree 3792' from DER, 172' left of centerline, 378' MSL.

Trees beginning 3938' from DER, 356' left of centerline, up to 391' MSL.

Rwy 30, traverse way 7' from DER, 341' right of centerline, 294' MSL.

Sign 21' from DER, 120' left of centerline, 2' AGL/279' MSL.

Pole, traverse way beginning 72' from DER, 374' left of centerline, up to 28' AGL/305' MSL.

Tree, fences, traverse way beginning 114' from DER, 122' right of centerline, up to 296' MSL.

Pole 140' from DER, 427' left of centerline, 38' AGL/315' MSL.

Trees, vegetation, traverse way, poles beginning 174' from DER, 43' left of centerline, up to 326' MSL.

Electrical system, traverse way beginning 377' from DER, 7' right of centerline, up to 19' AGL/297' MSL.

Tree 1412' from DER, 799' left of centerline, 358' MSL.

Poles beginning 1419' from DER, 158' right of centerline, up to 41' AGL/320' MSL.

Tree 1539' from DER, 844' left of centerline, 389' MSL.

FRESNO YOSEMITE INTL (FAT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 10OCT19 (19283) (FAA)

TAKEOFF MINIMUMS:

Rwys 11L/R, 29L/R, std. w/min. climb of 250' per NM to 5000 or 5800 - 3 for VCOA.

DEPARTURE PROCEDURE:

Rwys 11L/R, climb heading 112° to 2500, then climbing left turn heading 040° to intercept FRA VORTAC R-150 to FRA VORTAC. Cross FRA VORTAC at or above 6000, thence...

Rwys 29L/R, climb heading 292° to 2500, then climbing right turn heading 350° to intercept FRA VORTAC R-230. Cross FRA VORTAC at or above 6000, thence...

...continue climb in FRA VORTAC holding pattern (hold south, left turn, 350° inbound) to cross FRA VORTAC at or above MEA/ MCA for route of flight.

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Fresno Yosemite Intl airport at or above 6000, then on FRA R-180 to FRA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11L, lighting beginning 109' from DER, on centerline, up to 4' AGL/336' MSL.

Pole 648' from DER, 542' left of centerline, 16' AGL/349' MSL.

Electrical system 1223' from DER, 662' right of centerline, 30' AGL/363' MSL.

Pole 1229' from DER, 664' right of centerline, 33' AGL/365' MSL.

Tree, pole beginning 1414' from DER, 668' right of centerline, up to 377' MSL.

Sign, transmission line beginning 1694' from DER, 862' right of centerline, up to 51' AGL/383' MSL.

Rwy 11R, lighting 10' from DER, 55' right of centerline, 1' AGL/331' MSL.

General utility 159' from DER, 433' left of centerline, 3' AGL/334' MSL.

Pole 329' from DER, 280' left of centerline, 21' AGL/349' MSL.

Tower 664' from DER, 274' left of centerline, 34' AGL/362' MSL.

Pole 1205' from DER, 569' right of centerline, 54' AGL/382' MSL.

Pole 1458' from DER, 393' right of centerline, 54' AGL/384' MSL.

Pole 1598' from DER, 294' right of centerline, 55' AGL/385' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

FRESNO, CA (CON'T)

FRESNO YOSEMITE INTL (FAT) (CON'T)

- Rwy 11R (CON'T)**, electrical system, pole beginning 1598' from DER, 262' right of centerline, up to 57' AGL/386' MSL.
Tree 2648' from DER, 442' right of centerline, 398' MSL.
- Rwy 29L** lighting 9' from DER, 55' left of centerline, 2' AGL/331' MSL.
Lighting 10' from DER, 54' right of centerline, 1' AGL/331' MSL.
Transmission line, pole beginning 997' from DER, 620' left of centerline, up to 55' AGL/385' MSL.
Tree, transmission line beginning 1132' from DER, 189' left of centerline, up to 396' MSL.
Trees beginning 1457' from DER, 172' left of centerline, up to 429' MSL.
Trees beginning 1668' from DER, 2' right of centerline, up to 378' MSL.
Tree 1905' from DER, 359' right of centerline, 380' MSL.
- Rwy 29R**, lighting 9' from DER, 54' right of centerline, 2' AGL/334' MSL.
Pole 994' from DER, 601' right of centerline, 29' AGL/364' MSL.
Pole beginning 1019' from DER, 548' right of centerline, up to 30' AGL/365' MSL.
Trees beginning 2315' from DER, 847' left of centerline, up to 395' MSL.

GRASS VALLEY, CA

NEVADA COUNTY (GOO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD'T 1A 29MAR18 (18088) (FAA)

TAKEOFF MINIMUMS:

Rwy 7, NA.

DEPARTURE PROCEDURE:

Rwy 25, climb via MYV R-058 to 6000 then continue climb on course.

TAKEOFF OBSTACLE NOTES:

- Rwy 25**, multiple trees and bushes beginning 40' from DER, 78' right of centerline, up to 3087' MSL.
Trees beginning 68' from DER, 312' left of centerline, up to 3137' MSL.
Trees beginning 593' from DER, 149' right of centerline, up to 3088' MSL.
Tree 648' from DER, 176' right of centerline, 3093' MSL.
Trees beginning 698' from DER, 175' right of centerline, up to 3094' MSL.
Tree 748' from DER, 138' right of centerline, 3096' MSL.
Tree 773' from DER, 167' right of centerline, 3102' MSL.

GROVELAND, CA

PINE MOUNTAIN LAKE (E45)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD'T 1 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwy 9, 600-2¼ or std. w/min. climb of 400' per NM to 4000.

DEPARTURE PROCEDURE:

Rwy 9, turn right.

Rwy 27, turn left.

All aircraft climb direct LIN VOR/DME. Cross LIN VOR/DME at or above 5000.

HALF MOON BAY, CA

HALF MOON BAY (HAF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD'T 2 15JUN23 (23166) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/min. climb of 375' per NM to 3200.

DEPARTURE PROCEDURE:

Rwy 12, climb on heading 122° to 3000, then climbing left turn direct OSI VOR/DME. Continue climb in OSI holding pattern (hold southeast, left turns, 321° inbound) to cross OSI VOR/DME at or above 5100 on V25-87 before proceeding on course.

Rwy 30, use SEEMS DEPARTURE.

TAKEOFF OBSTACLE NOTES:

- Rwy 12**, tree 2557' from DER, 212' left of centerline, 90' AGL/114' MSL.
Rwy 30, trees beginning 1248' from DER, 83' left of centerline, up to 160' MSL.
Tree 1263' from DER, 628' right of centerline, 156' MSL.
Trees and poles beginning 1490' from DER, 102' right of centerline, up to 160' MSL.
Trees beginning 1921' from DER, 161' left of centerline, up to 172' MSL.
Trees beginning 2234' from DER, 23' left of centerline, up to 192' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 16OCT14 (14289) (FAA)

Rwy 12, heading as assigned by ATC.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

HANFORD, CA

HANFORD MUNI (HJO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15SEP16 (16259) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climbing left turn heading 050° to intercept V-23.

Rwy 32, climbing right turn heading 050° to intercept V-23.

TAKEOFF OBSTACLE NOTES:

Rwy 14: fence 9' from DER, 298' left of centerline, 244' MSL.

Catenary 1293' from DER, 1293' left of centerline, 39' AGL/287' MSL.

Poles beginning 1679' from DER, crossing centerline, up to 52' AGL/296' MSL.

Trees beginning 2224' from DER, 391' left of centerline up to 313' MSL.

Rwy 32: fence 168' from DER, 9' left of centerline, 245' MSL.

Pole 588' from DER, 588' left of centerline, 25' AGL/278' MSL.

Sign 614' from DER, 151' right of centerline, 9' AGL/261' MSL.

Trees and poles beginning 592' from DER, 3' left of centerline, up to 300' MSL.

Poles beginning 1127' from DER, 222' right of centerline, up to 40' AGL/293' MSL.

Tree 2159' from DER, 434' right of centerline, 299' MSL.

HAYWARD, CA

HAYWARD EXEC (HWD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 13JAN11 (21140) (FAA)

DEPARTURE PROCEDURE:

Rwys 10L, 10R, climbing right turn direct OSI VORTAC.

Rwys 28L, 28R, climbing left turn direct OSI VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, hangars, trees and buildings beginning 625' from DER, 67' left of centerline, up to 100' AGL/155' MSL.

Trees beginning 2050' from DER, 1' right of centerline, up to 60' AGL/107' MSL.

Rwy 10R, trees, poles, and buildings beginning 21' from DER, 61' left of centerline, up to 100' AGL/155' MSL.

Windsock, blast fence, trees, buildings and pole beginning 23' from DER, 38' right of centerline, up to 74' AGL/119' MSL.

Rwy 28L, trees beginning 899' from DER, 141' left of centerline, up to 93' AGL/108' MSL.

Antennas, road, and trees beginning 108' from DER, 68' right of centerline, up to 87' AGL/102' MSL.

Rwy 28R, antenna and trees beginning 728' from DER, 28' left of centerline, up to 87' AGL/102' MSL.

Trees beginning 391' from DER, 4' right of centerline, up to 95' AGL/125' MSL.

HAYWARD EXECUTIVE (HWD)

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 07JAN16 (16007) (FAA)

Rwys 10L/R, heading as assigned by ATC.

Rwys 28L/R, heading as assigned by ATC; requires min. climb of 310' per NM to 4600.

HOLLISTER, CA

HOLLISTER MUNI (CVH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JUN08 (08157) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, NA-obstacles.

Rwy 24, NA-ATC.

Rwy 13, std. w/ min. climb of 391' per NM to 3500, or 3100-3 for climb in visual conditions.

Rwy 31, std. w/ min climb of 209' per NM to 2300, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 13, climbing right turn to heading 332° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.

Rwy 31, climb heading 307° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, terrain beginning 992' from DER, 348' left of centerline, up to 289' MSL.

Terrain beginning 2467' from DER, 154' right of centerline, up to 309' MSL.

Trees beginning 1277' from departure end of runway, 348' left of centerline, up to 309' MSL.

Trees beginning 2467' from DER, 153' right of centerline, up to 270' MSL.

Rwy 31, terrain beginning 76' from DER, 392' left of centerline, up to 247' MSL.

Terrain beginning 14' from DER, 179' right of centerline, up to 231' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

JACKSON, CA

WESTOVER FLD AMADOR COUNTY (JAQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02NOV23 (23306) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 300-1 or std w/min climb of 672'/NM to 2000.

DEPARTURE PROCEDURE:

Rwy 1, climbing left turn direct LIN VOR/DME, continue climbing on course.

Rwy 19, climbing right turn direct LIN VOR/DME, continue climbing on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1, terrain, utility building beginning 55' from DER, 169' right of centerline, up to 1701' MSL.

Terrain beginning 188' from DER, 193' right of centerline, up to 1702' MSL.

Terrain beginning 263' from DER, 252' right of centerline, up to 1703' MSL.

Tree 314' from DER, 170' left of centerline, 1692' MSL.

Vehicles on road 359' from DER, 76' left of centerline, 1693' MSL.

Terrain, vehicles on road beginning 456' from DER, 50' right of centerline, up to 1706' MSL.

Agricultural equipment, vehicles on road beginning 664' from DER, 265' right of centerline, up to 6' AGL/1730' MSL.

Tree 666' from DER, 194' left of centerline, 1701' MSL.

Tree 697' from DER, 56' left of centerline, 1703' MSL.

Building, vehicles on road, tree beginning 734' from DER, 8' right of centerline, up to 16' AGL/1741' MSL.

Poles, vehicles on road, fence beginning 779' from DER, 400' right of centerline, up to 45' AGL/1752' MSL.

Tree 1088' from DER, 392' right of centerline, 1756' MSL.

Pole 1123' from DER, 610' right of centerline, 39' AGL/1762' MSL.

Tree 1123' from DER, 740' right of centerline, 1764' MSL.

Trees, pole, vehicles on road beginning 1243' from DER, 331' right of centerline, up to 1772' MSL.

Trees, terrain, pole, transmission line, vehicles on road beginning 1406' from DER, 254' right of centerline, up to 1785' MSL.

Tree 1538' from DER, 876' right of centerline, 1789' MSL.

Tree 1561' from DER, 456' right of centerline, 1802' MSL.

Trees, vehicles on road beginning 1619' from DER, 255' right of centerline, up to 1812' MSL.

Trees, building beginning 1806' from DER, 633' right of centerline, up to 1828' MSL.

Tree, building, terrain beginning 1954' from DER, 188' right of centerline, up to 1833' MSL.

Tree, building beginning 2037' from DER, 547' right of centerline, up to 1855' MSL.

Trees, terrain beginning 2093' from DER, 188' right of centerline, up to 1855' MSL.

Rwy 19, light poles 9' from DER, 39' left of centerline, 1' AGL/1692' MSL.

Building, antenna beginning 56' from DER, 158' right of centerline, up to 20' AGL/1697' MSL.

Light poles, tank beginning 80' from DER, 104' left of centerline, up to 5' AGL/1695' MSL.

Tower 269' from DER, 411' right of centerline, 63' AGL/1714' MSL.

LAKEPORT, CA

LAMPSON FLD (102)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 08APR10 (21336) (FAA)

TAKEOFF MINIMUMS:

Rwy 10, std. w/min. climb of 400' per NM to 4500, do not exceed 210K until intercepting the ENI R-073 or 3200-3 for climb in visual conditions.

Rwy 28, NA-Rapidly rising terrain.

DEPARTURE PROCEDURE:

Rwy 10, climbing left turn to 6000 via heading 310° and ENI R-073 to ENI VORTAC before proceeding on course, or for climb in visual conditions: cross Lampson Fld at or above 4400 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10, vehicle on road 347' from DER, 7' right of centerline, 15' AGL/1394' MSL.

Trees beginning 280' from DER, 201' left of centerline, up to 100' AGL/1479' MSL.

Trees beginning 494' from DER, 219' right of centerline, up to 100' AGL/1479' MSL.

LEMOORE NAS (REEVES FIELD) (KNLC)

LEMOORE, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15JUN23 (23166) (USN)

TAKEOFF MINIMUMS:

Rwys 32L/R, std. w/min. climb of 220' per NM to 6400.

DEPARTURE PROCEDURE:

Rwy 32L, climb on hdg between 142° to 283° from DER.

Rwy 32R, climb on hdg between 142° to 281° from DER.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 17JUN21 (21168) (USN)

Rwys 14L/R, 32L/R, hdgs as assigned by ATC.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

LINCOLN, CA

LINCOLN RGNL/KARL HARDER FLD (LHM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 20JUL95 (21140) (FAA)

DEPARTURE PROCEDURE:

Rwy 15, climbing right turn.**Rwy 33**, climbing left turn.**All aircraft** climb direct MYV VOR/DME, then climb on course.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 05FEB15 (15036) (FAA)

Rwys 15,33, headings as assigned by ATC.

LITTLE RIVER, CA

LITTLE RIVER (LLR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JUN10 (10154) (FAA)

DEPARTURE PROCEDURE: Use LITTLE RIVER DEPARTURE.

LIVERMORE, CA

LIVERMORE MUNI (LVK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:

Use LIVERMORE DEPARTURE.

LODI, CA

LODI (103)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwys 12, 30, NA-Environmental.

DEPARTURE PROCEDURE:

Rwy 8, climb heading 076° to 600 then climbing right turn on LIN R-290 to LIN VOR/DME, thence...**Rwy 26**, climb heading 256° to 800 climbing right turn on heading 080° to intercept LIN R-290 to LIN VOR/DME, thence...

...continue climb in hold (hold Southeast, right turns, 326° inbound) to MCA or MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 8, hangars, buildings, and vehicles on roadways beginning at DER, left and right of centerline, up to 25' AGL/84' MSL.

Power lines beginning at 4.9 NM from DER, left and right of centerline, up to 160' AGL/220' MSL.

Rwy 26, vehicles on roadway beginning 7' from DER, 265' right of centerline, up to 15' AGL/69' MSL.

Trees beginning 15' from DER, left and right of centerline, up to 100' AGL/154' MSL.

Power lines beginning at 4.6 NM from DER, left and right of centerline, up to 160' AGL/220' MSL.

LOS BANOS, CA

LOS BANOS MUNI (LSN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17DEC09 (09351) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climb on a heading between 318° CW to 151° from DER, or minimum climb of 320' per NM to 5100 for all other courses.**Rwy 32**, climb on a heading between 260° CW to 137° from DER, or minimum climb of 273' per NM to 5200 for all other courses.

TAKEOFF OBSTACLE NOTES:

Rwy 14, multiple trees, poles, buildings beginning 3' from DER, 24' left of centerline, up to 73' AGL/194' MSL.

Multiple trees, poles, buildings beginning 20' from DER, 21' right of centerline, up to 85' AGL/206' MSL.

Rwy 32, multiple trees beginning 220' from DER, 453' right of centerline, up to 40' AGL/160' MSL.

Multiple poles, beginning 1120' from DER, 173' left of centerline, up to 60' AGL/181' MSL.

MADERA, CA

MADERA MUNI (MAE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 31DEC20 (20366) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/ min. climb of 250' per NM to 2000.

DEPARTURE PROCEDURE:

Rwy 12, climbing left turn heading 080° to intercept V-230.**Rwy 30**, climbing right turn heading 110° to intercept V-230.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

MAMMOTH LAKES, CA

MAMMOTH YOSEMITE (MMH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05MAR15 (15064) (FAA)

DEPARTURE PROCEDURE:

Use NIKOL DEPARTURE.

MARINA, CA

MARINA MUNI (OAR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 11FEB10 (22139) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, std. w/min. climb of 307' per NM to 4500, or 2000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 11, climb heading 108° and SNS VORTAC R-252 to SNS VORTAC, thence...

or for climb in visual conditions: cross Marina Muni Airport at or above 2100, then proceed on SNS VORTAC R-261 to SNS VORTAC, thence...

Rwy 29, climb via heading 288° to 1200', then climbing right turn direct SNS VORTAC, thence...

...all aircraft continue climb in SNS holding pattern (west, left turns, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, windssock 32' from DER, 386' left of centerline, 8' AGL/148' MSL.**Rwy 29**, bush 158' from DER, 272' right of centerline, 10' AGL/142' MSL.

MARIPOSA, CA

MARIPOSA-YOSEMITE (MPI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20JAN05 (05020) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, N/A-Obstacles

DEPARTURE PROCEDURE:

Rwy 26, climb via heading 265° to 3000, then climbing left turn to 7000 direct FRA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 26, tree 10' from DER, 313' left of centerline, 100' AGL/2265' MSL.

Tree 1146' from DER, 303' left of centerline, 100' AGL/2298' MSL.

MARYSVILLE, CA

YUBA COUNTY (MYV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 27JUN13 (13178) (FAA)

DEPARTURE PROCEDURE:

All runways, climb direct ILA VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 5, tree 750' from DER, 239' right of centerline, 44' AGL/109' MSL.

Tower 986' from DER, 258' left of centerline, 46' AGL/108' MSL.

Tree 1737' from DER, 191' left of centerline, 70' AGL/134' MSL.

Tree 2792' from DER, 607' left of centerline, 81' AGL/145' MSL.

Rwy 23, railroad 822' from DER, 1' right of centerline, 23' AGL/85' MSL.

Building 903' from DER, 387' right of centerline, 29' AGL/89' MSL.

Rwy 32, pole 1040' from DER, 717' left of centerline, 32' AGL/94' MSL.

Tree 2487' from DER, 586' left of centerline, 75' AGL/134' MSL.

Tree 3135' from DER, 672' right of centerline, 93' AGL/157' MSL.

MERCED, CA

MERCED YOSEMITE RGNL (MCE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5B 10DEC15 (22363) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climbing right turn to 3000 via heading 330° and MOD R-120 to MOD.**Rwy 30**, climb to 3000 via heading 300° and MOD R-120 to MOD.

TAKEOFF OBSTACLE NOTES:

Rwy 12, tree 1321' from DER, 785' left of centerline, 50' AGL/190' MSL.**Rwy 30**, bush 183' from DER, 490' right of centerline, 20' AGL/161' MSL.

Bush 486' from DER, 604' left of centerline, 20' AGL/170' MSL.

Tree 2457' from DER, 263' left of centerline, 50' AGL/220' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

MODESTO, CA

MODESTO CITY-COUNTY-HARRY SHAM FLD (MOD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 10JAN13 (21168) (FAA)

DEPARTURE PROCEDURE:

Rwys 28L/R, climb on a heading between 256° CW to 109° from DER, or min. climb of 230' per NM to 5000 for all other courses.

TAKEOFF OBSTACLE NOTES:

Rwy 10R, trees beginning 169' from DER, 37' right of centerline, up to 91' AGL/195' MSL.

Sign 57' from DER, 211' right of centerline, 15' AGL/89' MSL.

Sign 16' from DER, 135' left of centerline, 4' AGL/87' MSL.

Trees beginning 823' from DER, 79' left of centerline, up to 89' AGL/148' MSL.

Rwy 10L, trees beginning 15' from DER, 65' right of centerline, up to 68' AGL/172' MSL.

Vehicles on road beginning 178' from DER, 17' left of centerline, up to 15' AGL/96' MSL.

Trees beginning 1413' from DER, 184' left of centerline, up to 63' AGL/126' MSL.

Rwy 28R, vehicles on road beginning 47' from DER, 332' right of centerline, up to 15' AGL/114' MSL.

Pole 754' from DER, 699' right of centerline, 34' AGL/133' MSL.

Building 979' from DER, 697' right of centerline, 29' AGL/128' MSL.

Tree 1390' from DER, 516' right of centerline, 37' AGL/136' MSL.

Trees beginning 2077' from DER, 379' left of centerline, up to 79' AGL/173' MSL.

Rwy 28L, multiple poles, trees, and buildings beginning 128' from DER, 34' left of centerline, up to 102' AGL/196' MSL.

Vehicles on road beginning 448' from DER, 219' left of centerline, up to 15' AGL/112' MSL.

Multiple poles and building beginning 1021' from DER, 350' right of centerline, up to 57' AGL/154' MSL.

Trees beginning 1112' from DER, 20' right of centerline, up to 70' AGL/164' MSL.

MONTAGUE, CA

SISKIYOU COUNTY (SIY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 09JAN14 (14009) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, CAT A,B 2400-2 or std. with a min. climb of 350' per NM to 5500. CAT C,D 4100-2 or std. with a min. climb of 350' per NM to 7400.

Rwy 35, 4000-2 or std. with a min. climb of 300' per NM to 7000.

DEPARTURE PROCEDURE:

Rwy 17, climb direct MOG NDB. Continue climb to 10000 in MOG holding pattern (hold N, right turns, 176° inbound).

Rwy 35, climb to 7000 via runway heading and 356° bearing from MOG NDB, then climbing right turn to 10000 direct MOG NDB.

All aircraft depart MOG NDB at or above MEA for route of flight.

MONTEREY, CA

MONTEREY RGNL (MRY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 10DEC15 (15344) (FAA)

TAKEOFF MINIMUMS:

Rwy 10L, std. w/min. climb of 449' per NM to 1800, or 1700-2½ for climb in visual conditions.

Rwy 10R, std. w/min. climb of 459' per NM to 1800, or 1700-2½ for climb in visual conditions.

Rwy 28L, std. w/min. climb of 218' per NM to 3300, or 1700-2½ for climb in visual conditions.

Rwy 28R, std. w/min. climb of 205' per NM to 3300, or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 10L, climbing left turn heading 045.00 and SNS VORTAC R-225 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

Rwy 10R, climbing left turn heading 045° and SNS VORTAC R-225 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

Rwy 28L, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

Rwy 28R, climbing right turn heading 045.00 and SNS VORTAC R-260 to SNS VORTAC, climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

VCOA:

Obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Monterey RGNL at or above 1800, then on SNS VORTAC R-231 to SNS VORTAC. Climb in SNS holding pattern (hold W, LT, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, NAVAID 556' from DER, 217' right of centerline, 20' AGL/272' MSL.

Bushes beginning 1.6 NM from DER, 1188' left of centerline up to 9' AGL/729' MSL.

Trees beginning 1.7 NM from DER, 923' left of centerline up to 102' AGL/764' MSL.

Trees beginning 1.6 NM from DER, 1993' right of centerline up to 90' AGL/923' MSL.

Bushes beginning 1.9 NM from DER, 2497' right of centerline up to 9' AGL/761' MSL.

Tower 2 NM from DER 3305' left of centerline, 27' AGL/767' MSL.

CON'T

22 FEB 2024 to 21 MAR 2024

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

MONTEREY, CA (CON'T) MONTEREY RGNL (MRY) (CON'T)

Rwy 10R, ground 11' from DER, 358' left of centerline 258' MSL.
Tree 230' from DER 388' left of centerline 21' AGL/265' MSL.
NAVAID 240' from DER, 282' left of centerline, 20' AGL/272' MSL.
Bushes beginning 1.5 NM from DER, 2381' left of centerline, up to 9' AGL/648' MSL.
Trees beginning 1.7 NM from DER, 388' left of centerline up to 76' AGL/629' MSL.
Bushes beginning 1.8 NM from DER, 2005' right of centerline up to 9' AGL/741' MSL.
Trees beginning 1.5 NM from DER, 1749' right of centerline up to 90' AGL/843' MSL.
Rwy 28L, terrain abeam DER, 198' left of centerline, up to 163' MSL.
Trees beginning 797' from DER, 678' left of centerline, up to 83' AGL/228' MSL.
Tree 1008' from DER, 616' left of centerline, 100' AGL/195' MSL.
Pole 1128' from DER, 716' left of centerline, 54' AGL/195' MSL.
Tree 1372' from DER, 755' left of centerline, 93' AGL/227' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 23JUN16 (16175) (FAA)

Rwy 10L, heading as assigned by ATC; requires min. climb of 360' per NM to 2900.
Rwy 10R, heading as assigned by ATC; requires min. climb of 370' per NM to 2800.
Rwy 28L, heading as assigned by ATC; requires min. climb of 310' per NM to 1100.
Rwy 28R, heading as assigned by ATC; requires min. climb of 250' per NM to 1100.

MOUNTAIN VIEW, CA MOFFETT FEDERAL AIRFIELD (NUQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 18OCT12 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwys 14L/R, std. w/min. climb of 550' per NM to 4000 or 1700-2½ for climb in visual conditions.
Rwys 32L/R, std. w/min. climb of 285' per NM to 3500 or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 14L/R, climbing right turn direct OSI VORTAC, thence...
or for climb in visual conditions cross Moffett Federal Airfield at or above 1600 then on OSI R-066 to OSI VORTAC, thence...
When executing VCOA notify ATC prior to departure.
Rwys 32L/R, climb heading 322° to 700, then climbing left turn heading 230° until receiving OSI VORTAC, then direct OSI VORTAC, thence...
or for climb in visual conditions cross Moffett Federal Airfield at or above 1600 then on OSI R-066 to OSI VORTAC, thence...
When executing VCOA notify ATC prior to departure.
...continue climb in OSI VORTAC holding pattern (hold southeast, left turns, 321° inbound) to cross OSI VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 32R, light support structures abeam DER, 76' left and 76' right of centerline, up to 3' AGL/7' MSL.
Vehicles on road beginning 5' from DER, 92' left of centerline, up to 15' AGL/20' MSL.
Vehicles on road beginning 512' from DER, 158' right of centerline, up to 15' AGL/20' MSL.
Fence 134' from DER, left and right of centerline, up to 8' AGL/12' MSL.
Rwy 32L, light support structures abeam DER, 76' left and 76' right of centerline, up to 1' AGL/5' MSL.
Navaid 449' from DER, 315' right of centerline, up to 17' AGL/21' MSL.
Tree 1632' from DER, 934' left of centerline, up to 100' AGL/129' MSL.
Rwy 14L, light support structure 13' from DER, 126' right of centerline, up to 4' AGL/34' MSL.
Vehicles on road beginning 770' from DER, 547' right of centerline, 15' AGL/53' MSL.
Rail car on railroad beginning 774' from DER, 261' right of centerline, up to 23' AGL/60' MSL.
Trees beginning 1191' from DER, 71' right of centerline, up to 100' AGL/171' MSL.
Trees beginning 1922' from DER, 109' left of centerline, up to 100' AGL/153' MSL.
Rwy 14R, light support structures abeam DER, 77' right and 77' left of centerline, up to 3' AGL/37' MSL.
Fence, 187' from DER, 488' right of centerline, up to 8' AGL/45' MSL.
Vehicles on road beginning 207' from DER, 520' right of centerline, 15' AGL/55' MSL.
Rail car on railroad beginning 955' from DER, 342' left of centerline, up to 23' AGL/60' MSL.
Trees beginning 1066' from DER, 34' left of centerline, up to 100' AGL/153' MSL.

NAPA, CA

NAPA COUNTY (APC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 03JUN10 (10154) (FAA)

DEPARTURE PROCEDURE:

Use NAPAA DEPARTURE.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

NOVATO, CA

GNOSS FLD (DVO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02MAY13 (21224) (FAA)

TAKEOFF MINIMUMS:

Rwy 13, 400-2¼ or std. w/min. climb of 580' per NM to 500.

Rwy 31, 600-2½ w/min. climb of 285' per NM to 1500 or std. w/min. climb of 679' per NM to 800 or 2000-2½ for climb in visual conditions...

DEPARTURE PROCEDURE:

Rwy 13, climb heading 132° to 600 then turn left direct SGD VORTAC before proceeding on course.

Rwy 31, climbing right turn direct SGD VORTAC before proceeding on course.

... For climb in visual conditions, cross GnoSS Fid at or above 1900' MSL then proceed direct SGD VORTAC before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees beginning 2633' from DER, 627' left of centerline, up to 50' AGL/346' MSL.

Trees beginning 3630' from DER, 1274' right of centerline, up to 50' AGL/369' MSL.

Power line 1.7 NM from DER, 1980' left of centerline, 121' AGL/360' MSL.

Rwy 31, trees beginning 3237' from DER, 321' left of centerline, up to 50' AGL/569' MSL.

OAKDALE, CA

OAKDALE (O27)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10NOV16 (16315) (FAA)

DEPARTURE PROCEDURE:

Rwy 10, climbing left turn via heading 020° and LIN VOR/DME R-124 to WRAPS INT/LIN 16.66 DME. Climb in WRAPS holding pattern (Northwest, right turn, 124° inbound) to cross WRAPS INT at or above MEA for direction of flight.

Rwy 28, climb via heading 276° and LIN VOR/DME R-146 to LIN VOR/DME to cross LIN VOR/DME at or above MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 10, terrain beginning 388' from DER, up to 279' MSL.

Rwy 28, power line 3447' from DER, 407' right of centerline, 115' AGL/329' MSL.

OAKLAND, CA

METRO OAKLAND INTL (OAK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 17OCT13 (21168) (FAA)

DEPARTURE PROCEDURE:

Rwys 10L/R, 12, 15, 30, climbing right turn to intercept V107-301, thence ...

Rwys 28L/R, climb heading 278° to intercept V107-301, thence ...

Rwy 33, climbing left turn to intercept V107-301, thence...

... to cross COMMO INT at or above 4000, continue climb-in-hold (hold E, right turns, 288° inbound) to 4000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, building, hanger and road beginning 225' from DER, 554' left of centerline, up to 37' AGL/42' MSL.

Trees beginning 1644' from DER, 309' left of centerline, up to 59' AGL/67' MSL.

Rwy 10R, Runway lights 9' from DER, 26' left and right of centerline, 1' AGL/9' MSL.

Sign 63' from DER, 251' left of centerline, 4' AGL/10' MSL.

Signs, fence and poles beginning 361' from DER, 540' right of centerline up to 35' AGL/44' MSL.

Signs and trees beginning 1160' from DER, 177' right of centerline, up to 36' AGL/50' MSL.

Rwy 12, Runway end and ALS lights beginning 11' from DER, 9' left and right of centerline, 1' AGL/10' MSL.

Rwy 15, ATCT 3613' from DER, 1017' left of centerline, 88' AGL/101' MSL.

Obstruction light on WSK 813' from DER, 577' right of centerline, 24' AGL/27' MSL.

Rwy 28L, rising terrain beginning 8' from DER, crossing centerline, up to 9' MSL.

Multiple trees beginning 105' from DER, 35' left of centerline, up to 64' AGL/80' MSL.

Traffic lights and poles beginning 895' from DER, 164' left of centerline, up to 29' AGL/37' MSL.

Substation 1593' from DER, 871' left of centerline, 37' AGL/53' MSL.

Fence 95' from DER, 410' left of centerline, 6' AGL/13' MSL.

Multiple trees beginning 994' from DER, 55' right of centerline, up to 91' AGL/96' MSL.

Rwy 28R, multiple trees beginning 1745' from DER, 23' left of centerline, up to 91' AGL/96' MSL.

Multiple trees beginning 2053' from DER, 88' right of centerline, up to 109' AGL/111' MSL.

Rwy 30, light pole 582' from DER, 483' left of centerline, 16' AGL/26' MSL.

Rwy 33, multiple trees, buildings and poles beginning 256' from DER, 497' left of centerline, up to 41' AGL/45' MSL.

Multiple trees, buildings, poles and towers beginning 762' from DER, 267' right of centerline, up to 39' AGL/51' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 16OCT14 (14289) (FAA)

Rwy 10L, headings as assigned by ATC; requires min. climb of 340' per NM to 2300.

Rwy 10R, headings as assigned by ATC; requires min. climb of 330' per NM to 2300.

Rwys 12, 15, headings as assigned by ATC.

Rwys 28L/R, 30, headings as assigned by ATC; requires min. climb of 240' per NM to 2400.

Rwy 33, headings as assigned by ATC; requires min. climb of 210' per NM to 2400.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ORLAND, CA

HAIGH FLD (O37)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 21MAY20 (21336) (FAA)

DEPARTURE PROCEDURE:

Rwy 15, climb to 1000 then climbing left turn heading 100° to intercept RBL VORTAC R-140 to 5000 before proceeding on course.

Rwy 33, climb to 1000, then climbing right turn heading 020° to intercept RBL VORTAC R-140 to 5000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 15, fence 6' from DER, 383' right of centerline, 6' AGL/214' MSL.

Fence 15' from DER, 397' left of centerline, 6' AGL/214' MSL.

Pole 88' from DER, 443' left of centerline, 29' AGL/237' MSL.

Pole 1198' from DER, 661' right of centerline, 35' AGL/247' MSL.

Pole beginning 1262' from DER, 173' right of centerline, up to 45' AGL/258' MSL.

Tree 1370' from DER, 824' left of centerline, 270' MSL.

Tree 1464' from DER, 390' right of centerline, 273' MSL.

Trees beginning 1480' from DER, 399' right of centerline, up to 313' MSL.

Rwy 33, tree, traverse way beginning 78' from DER, 224' left of centerline, up to 237' MSL.

Pole beginning 358' from DER, 298' right of centerline, up to 24' AGL/241' MSL.

Pole 955' from DER, 256' left of centerline, 31' AGL/249' MSL.

Tree 1202' from DER, 791' left of centerline, 281' MSL.

Tree 1807' from DER, 595' left of centerline, 308' MSL.

Tree 2388' from DER, 383' right of centerline, 324' MSL.

OROVILLE, CA

OROVILLE MUNI (OVE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 22JUN17 (17173) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std. w/ min. climb of 280' per NM to 1500, or 1000-2½ for VCOA.

Rwy 31, 300-1% or std. w/ min. climb of 245' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 2, 31, climbing left turn to 5000 on heading 200° direct ILA VORTAC before proceeding on course.

Rwys 13, 20, climbing right turn to 5000 on heading 210° direct ILA VORTAC before proceeding on course.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Oroville Municipal airport south-westbound at or above 1000, then direct ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, ground 170' from DER, 475' right of centerline, 189' MSL.

Ground 191' from DER, 489' right of centerline, 190' MSL.

Tree 511' from DER, 600' left of centerline, 231' MSL.

Tree 513' from DER, 603' left of centerline, 236' MSL.

NAVAID 1143' from DER, 348' right of centerline, 215' MSL.

Pole 1364' from DER, 740' right of centerline, 255' MSL.

Poles beginning 1365' from DER, 537' right of centerline, up to 256' MSL.

Rwy 13, poles beginning 128' from DER, 292' right of centerline, up to 29' AGL/203' MSL.

Vertical structure 177' from DER, 493' left of centerline, 184' MSL.

Vehicles on road 210' from DER, 515' left of centerline, 189' MSL.

Tree 312' from DER, 554' left of centerline, 205' MSL.

Rwy 20, vehicles on road 819' from DER, 376' left of centerline, 203' MSL.

Poles beginning 902' from DER, 655' right of centerline, up to 36' AGL/217' MSL.

Rwy 31, sign 32' from DER, 325' left of centerline, 195' MSL.

Ground beginning 109' from DER, 410' right of centerline, up to 200' MSL.

Trees beginning 641' from DER, 621' left of centerline, up to 244' MSL.

Tree 1380' from DER, 466' left of centerline, 264' MSL.

T-L tower 1.3 NM from DER, 1826' right of centerline, 144' AGL/444' MSL.

PALO ALTO, CA

PALO ALTO (PAO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-B 15OCT15 (15288) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, turn left.

Rwy 31, turn right.

All aircraft climb direct SJC VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, building with ship mast 1325' from DER, 450' left of centerline, 60' AGL/67' MSL.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

PETALUMA, CA

PETALUMA MUNI (O69)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13NOV14 (22307) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, std. w/min. climb of 235' per NM to 1500.

Rwy 29, 300-1¼ or std. w/min. climb of 276' per NM to 400.

DEPARTURE PROCEDURE:

Rwy 11, climb heading 108° to 1500 then continue climb direct SGD VORTAC.

Rwy 29, climb heading 289° to 1500 then climbing left turn to 3000 direct SGD VORTAC.

All aircraft continue climb to MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 11, tree 1095' from DER, 779' right of centerline, 55' AGL/116' MSL.

Sign 69' from DER, 141' right of centerline, 9' AGL/80' MSL.

Vertical structure 8' from DER, 248' left of centerline, 10' AGL/81' MSL.

Trees 172' from DER, beginning 399' left of centerline, up to 46' AGL/117' MSL.

Trees 40' from DER, beginning 465' left of centerline, up to 40' AGL/111' MSL.

Rwy 29, trees 1091' from DER, beginning 151' right of centerline, up to 91' AGL/172' MSL.

Vertical structure 194' from DER, 248' right of centerline, up to 19' AGL/98' MSL.

Trees 121' from DER, beginning 282' right of centerline, up to 51' AGL/132' MSL.

Trees and buildings 88' from DER, beginning 292' left of centerline, up to 40' AGL/121' MSL.

Trees 1363' from DER, 462' left of centerline, up to 96' AGL/177' MSL.

Pole 1262' from DER, 90' left of centerline, 41' MSL/ 122' AGL.

Poles 2508' from DER, beginning 87' left of centerline, up to 94' AGL/175' MSL.

PLACERVILLE, CA

PLACERVILLE (PVF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 15NOV12 (12320) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, NA-obstacles.

DEPARTURE PROCEDURE:

Rwy 23, climb to 5000 on HNW R-226 then climbing right turn on HNW R-276 to HNW VOR/DME. Aircraft departing HNW VOR/DME R-180 CW R-303 climb on course; all others climb in HNW VOR/DME holding pattern (hold SW, right turns, 048° inbound) to cross HNW VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 23, hangar 20' from DER, 340' right of centerline, 27' AGL/2586' MSL.

PORTERVILLE, CA

PORTERVILLE MUNI (PTV)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2A 06DEC18 (18340) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/min. climb of 220' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 12, climbing right turn thence . . .

Rwy 30, climbing left turn thence . . .

...climb direct TTE VOR/DME. Aircraft departing TTE VOR/DME R-146 CW R-330 climb on course. All other aircraft climb in TTE VOR/DME holding pattern (hold northwest, right turn, 143° inbound) to cross TTE R-331 CW R-060, 8600; R-061 CW R-145, 7000.

TAKEOFF OBSTACLE NOTES:

Rwy 12, tree 618' from DER, 241' right of centerline, 460' MSL.

Trees beginning 776' from DER, 193' left of centerline, up to 467' MSL.

Pole 906' from DER, 588' left of centerline, 43' AGL/491' MSL.

Rwy 30, fence 176' from DER, 499' right of centerline, 6' AGL/436' MSL.

RED BLUFF, CA

RED BLUFF MUNI (RBL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 10FEB11 (11041) (FAA)

DEPARTURE PROCEDURE:

Rwy 15, climb direct RBL VORTAC, thence...

Rwy 33, climbing right turn direct RBL VORTAC, thence...

...continue climb in RBL holding pattern (S, right turns, 341° inbound) to cross RBL VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 15, WSK 5' from DER, 258' right of centerline, 18' AGL/361' MSL.

Tree 2065' from DER, 879' left of centerline, 100' AGL/449' MSL.

Rwy 33, trees beginning 468' from DER, 563' left of centerline, up to 54' AGL/387' MSL.

Trees beginning 587' from DER, 493' right of centerline, up to 73' AGL/393' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

REDDING, CA

BENTON FLD (O85)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05OCT23 (23278) (FAA)

DEPARTURE PROCEDURE:

Use REDDING DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees beginning 75' from DER, 319' left of centerline, up to 30' AGL/732' MSL.

Vehicle on road 273' from DER, 537' right of centerline, 730' MSL.

Tree 771' from DER, 613' right of centerline, 747' MSL.

Tree 1105' from DER, 324' right of centerline, 755' MSL.

Trees beginning 1207' from DER, 162' right of centerline, up to 51' AGL/762' MSL.

Rwy 34, building 2' from DER, 455' left of centerline, 724' MSL.

Pole, sign beginning 63' from DER, 179' right of centerline, up to 749' MSL.

NAVAID, trees, pole beginning 84' from DER, 260' left of centerline, up to 748' MSL.

Trees, fence, poles beginning 116' from DER, 182' right of centerline, up to 46' AGL/765' MSL.

Trees, pole beginning 373' from DER, 224' left of centerline, up to 57' AGL/753' MSL.

Trees beginning 623' from DER, 440' right of centerline, up to 775' MSL.

Pole, trees beginning 750' from DER, 19' left of centerline, up to 754' MSL.

Trees beginning 1766' from DER, 870' left of centerline, up to 779' MSL.

REDDING RGNL (RDD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5C 30JAN20 (23110) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climb on heading 126° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

Rwy 16, climbing left turn heading 114° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

Rwys 30, 34, climbing right turn heading 114° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12, trees beginning 45' from DER, 359' left of centerline, up to 23' AGL/515' MSL.

Trees, fence, general utility, transmission line beginning 281' from DER, 314' left of centerline, up to 49' AGL/542' MSL.

Transmission line 1920' from DER, 677' left of centerline, 60' AGL/543' MSL.

Tree 3470' from DER, 541' left of centerline, 109' AGL/590' MSL.

Rwy 16, tree 152' from DER, 463' right of centerline, 12' AGL/495' MSL.

Tree 347' from DER, 584' right of centerline, 46' AGL/527' MSL.

Rwy 30, terrain 27' from DER, 249' right of centerline, 502' MSL.

Aircraft on taxiway, pole, and trees beginning 32' from DER, 68' right of centerline, up to 44' AGL/544' MSL.

Aircraft on taxiway, pole, and building beginning 223' from DER, 13' left of centerline, up to 44' AGL/544' MSL.

Tree 1410' from DER, 211' left of centerline, 44' AGL/545' MSL.

Tree 1556' from DER, 417' right of centerline, 57' AGL/558' MSL.

Building and trees beginning 1584' from DER, 267' right of centerline, up to 60' AGL/563' MSL.

Tree 1588' from DER, 55' left of centerline, 50' AGL/553' MSL.

Trees beginning 1672' from DER, 431' right of centerline, up to 69' AGL/572' MSL.

Trees beginning 1793' from DER, 4' right of centerline, up to 74' AGL/576' MSL.

Trees beginning 1794' from DER, 78' left of centerline, up to 60' AGL/561' MSL.

Trees beginning 1882' from DER, 95' right of centerline, up to 74' AGL/577' MSL.

Trees beginning 2093' from DER, 227' right of centerline, up to 82' AGL/583' MSL.

Trees, building beginning 2340' from DER, 399' right of centerline, up to 99' AGL/600' MSL.

Tree 2788' from DER, 984' left of centerline, 113' AGL/613' MSL.

Tree 3256' from DER, 912' right of centerline, 94' AGL/601' MSL.

Rwy 34, electrical system 37' from DER, 130' right of centerline, 2' AGL/506' MSL.

Sign 38' from DER, 125' right of centerline, 4' AGL/508' MSL.

Sign 39' from DER, 123' left of centerline, 4' AGL/508' MSL.

Signs beginning 98' from DER, 252' left of centerline, up to 5' AGL/510' MSL.

Tree 2322' from DER, 1015' left of centerline, 67' AGL/576' MSL.

Tree 2386' from DER, 934' left of centerline, 74' AGL/583' MSL.

Tree 2455' from DER, 1120' left of centerline, 83' AGL/593' MSL.

Trees beginning 2662' from DER, 767' left of centerline, up to 83' AGL/594' MSL.

Trees beginning 2817' from DER, 479' left of centerline, up to 86' AGL/596' MSL.

Trees beginning 2906' from DER, 828' left of centerline, up to 87' AGL/598' MSL.

Trees beginning 2967' from DER, 794' left of centerline, up to 89' AGL/600' MSL.

Trees beginning 3137' from DER, 867' left of centerline, up to 96' AGL/608' MSL.

Trees beginning 3188' from DER, 792' left of centerline, up to 103' AGL/615' MSL.

Tower 3312' from DER, 1032' left of centerline, 108' AGL/622' MSL.

Antenna 3312' from DER, 1031' left of centerline, 105' AGL/619' MSL.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

REEDLEY, CA

REEDLEY MUNI (O32)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JAN19 (19003) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, climb on a heading between 132° CW to 323° from DER.

Rwy 34, climb on a heading between 156° CW to 320° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 16, vehicles on road, terrain, building and vegetation beginning 26' from DER, 309' left of centerline, up to 15' AGL/402' MSL.

Tree 1551' from DER, 778' right of centerline, 431' MSL.

Tree 1648' from DER, 893' left of centerline, 461' MSL.

Tree 1737' from DER, 210' right of centerline, 434' MSL.

Tree 2010' from DER, 189' left of centerline, 453' MSL.

Trees beginning 2033' from DER, 615' left of centerline, up to 482' MSL.

Tree 2894' from DER, 630' left of centerline, 483' MSL.

Rwy 34, tree 116' from DER, 376' right of centerline, 403' MSL.

Tree 166' from DER, 499' right of centerline, 406' MSL.

Vehicles on road and tree beginning 289' from DER, 329' right of centerline, up to 407' MSL.

RIO VISTA, CA

RIO VISTA MUNI (O88)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05DEC19 (19339) (FAA)

DEPARTURE PROCEDURE:

Rwy 7, climbing left turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.

Rwy 15, climb to 800 then climbing left turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.

Rwy 25, climbing right turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.

Rwy 33, climbing right turn direct SAC VORTAC. Continue climb in SAC VORTAC holding pattern (hold, south, right turn, 016° inbound) to cross SAC VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 7, lighting 10' from DER, 107' right of centerline, 2' AGL/24' MSL.

Terrain 111' from DER, 491' left of centerline, 27' MSL.

Rwy 15, pole 9' from DER, 19' left of centerline, 2' AGL/22' MSL.

Terrain 42' from DER, 270' right of centerline, 23' MSL.

Pole, vehicles on road, building beginning 112' from DER, 438' right of centerline, up to 33' AGL/55' MSL.

Poles, vehicles on road beginning 292' from DER, 25' left of centerline, up to 52' MSL.

Wind indicator, tree, vehicles on road, buildings, pole beginning 345' from DER, 1' right of centerline, up to 35' AGL/58' MSL.

Pole 1462' from DER, 99' left of centerline, 33' AGL/60' MSL.

Rwy 25, terrain, lighting beginning 0' from DER, 79' left of centerline, up to 26' MSL.

Poles, vehicles on road, trees beginning 287' from DER, 186' left of centerline, up to 54' MSL.

Tree 940' from DER, 201' left of centerline, 26' AGL/55' MSL.

Trees beginning 957' from DER, 3' left of centerline, up to 27' AGL/56' MSL.

Pole 1015' from DER, 308' right of centerline, 47' MSL.

Rwy 33, lighting 10' from DER, 100' right of centerline, 3' AGL/24' MSL.

Trees beginning 124' from DER, 252' right of centerline, up to 24' AGL/30' MSL.

Pole 1601' from DER, 846' left of centerline, 43' AGL/66' MSL.

Pole 1639' from DER, 891' left of centerline, 44' AGL/68' MSL.

Trees, building beginning 1912' from DER, 792' left of centerline, up to 66' AGL/92' MSL.

SACRAMENTO, CA

SACRAMENTO EXEC (SAC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 20JUN19 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 2, multiple trees 1128' from DER, 108' left of centerline, up to 76' AGL/96' MSL.

Antenna 1376' from DER, 663' left of centerline, 51' AGL/71' MSL.

Trees 1858' from DER, 137' right of centerline, 73' AGL/93' MSL.

Rwy 12, multiple trees 518' from DER, 26' left of centerline, up to 83' AGL/98' MSL.

Light pole 507' from DER, 336' left of centerline, 37' AGL/52' MSL.

Transmission pole 3971' from DER, 647' left of centerline, 130' AGL/154' MSL.

Multiple trees 475' from DER, 476' right of centerline up to 97' AGL/112' MSL.

Light poles 711' from DER, 241' right of centerline, 36' AGL/51' MSL.

Rwy 20, multiple trees beginning 850' from DER, 626' left of centerline, up to 92' AGL/107' MSL.

Multiple trees beginning 714' from DER, 515' right of centerline, up to 66' AGL/81' MSL.

Rwy 30, obstruction light on hangers 460' from DER, 360' right of centerline, 25' AGL/43' MSL.

Multiple trees beginning 631' from DER, 195' right of centerline, up to 56' AGL/74' MSL.

Multiple trees beginning 1331' from DER, 247' left of centerline, up to 90'/110' MSL.

Antenna on building 1543' from DER, 442' left of centerline, 47' AGL/67' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SACRAMENTO, CA (CON'T)

SACRAMENTO INTL (SMF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 21MAY20 (20142) (FAA)

DEPARTURE PROCEDURE:

Rwy 17L, climb heading 168° to 700 before turning east.

TAKEOFF OBSTACLE NOTES:

Rwy 17L, vehicles on road, 225' from DER, crossing runway centerline, 10' AGL/31' MSL

Rwy 35L, tree 3656' from DER, 1296' left of centerline, 98' AGL/123' MSL.

Rwy 35R, pole 1786' from DER, 945' right of centerline, 46' AGL/73' MSL.

SACRAMENTO MATHER (MHR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 06JAN94 (94006) (FAA)

DEPARTURE PROCEDURE:

Rwys 4L,4R, climbing right turn direct SAC VORTAC.

Rwys 22L,22R climb direct SAC VORTAC.

SALINAS, CA

SALINAS MUNI (SNS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 19MAY22 (22139) (FAA)

DEPARTURE PROCEDURE:

Rwy 8, climbing right turn to intercept SNS VORTAC R-124 to 5500 before proceeding on course.

Rwy 13, climbing left turn to intercept SNS VORTAC R-124 to 5500 before proceeding on course.

Rwy 26, climbing right turn to intercept SNS VORTAC R-264 to 5000 before proceeding on course.

Rwy 31, climbing left turn to intercept SNS VORTAC R-264 to 5000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 8, fence 195' from DER, 409' left of centerline, 5' AGL/92' MSL.

Transmission line 1801' from DER, 761' left of centerline, 90' AGL/171' MSL.

Rwy 26, pole, vehicle on road, tree beginning 110' from DER, 266' left of centerline, up to 34' AGL/98' MSL.

Pole, vehicle on road beginning 137' from DER, 281' right of centerline, up to 33' AGL/100' MSL.

Poles beginning 910' from DER, 233' right of centerline, up to 35' AGL/102' MSL.

Tree 1646' from DER, 351' left of centerline, 119' MSL.

Tree 1909' from DER, 73' right of centerline, 121' MSL.

Building 1943' from DER, 435' left of centerline, 60' AGL/128' MSL.

Tower 2769' from DER, 32' right of centerline, 81' AGL/145' MSL.

Transmission line 2974' from DER, 739' right of centerline, 93' AGL/150' MSL.

Tower 3991' from DER, 424' left of centerline, 116' AGL/179' MSL.

Rwy 31, trees, building beginning 171' from DER, 390' right of centerline, up to 133' MSL.

Vehicle on road 206' from DER, 201' left of centerline, 97' MSL.

Tree 282' from DER, 436' left of centerline, 120' MSL.

Trees, pole, transmission line beginning 1043' from DER, 5' left of centerline, up to 172' MSL.

Fence, transmission line, poles beginning 1141' from DER, 202' right of centerline, up to 60' AGL/145' MSL.

SAN ANDREAS, CA

CALAVERAS CO-MAURY RASMUSSEN FIELD (CPU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwy 13, 1800-5 or std. w/min. climb of 300' per NM to 3700.

DEPARTURE PROCEDURE:

Rwy 13, climb runway heading to 3100, then climbing right turn via LIN R-085 to LIN VOR/DME.

Rwy 31, climb via heading 311° to 3000, then climbing left turn via Linden (LIN) VOR/DME R-029 to LIN VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 13, windsock 4' from DER, 129' right of centerline, 14' AGL/1341' MSL.

Lights 4' from DER, 68' right of centerline, up to 2' AGL/1330' MSL.

Bush 24' from DER, 140' right of centerline, 3' AGL/1331' MSL.

Tree 43' from DER, 287' right of centerline, up to 8' AGL/ 1336' MSL.

Bush 26' from DER, 96' left of centerline, up to 1' AGL/1329' MSL.

Rwy 31, tree 19' from DER, 242' left of centerline, up to 30' AGL/1335' MSL.

Trees 220' from DER, 375' right of centerline, up to 40' AGL/1345' MSL.

Pole 667' from DER, 653' left of centerline, 23' AGL/1326' MSL.

Trees 1010' from DER, 651' right of centerline, up to 46' AGL/1351' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SAN CARLOS, CA

SAN CARLOS (SQL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10AUG23 (23222) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, 300-1¾ or std w/min climb of 240'/NM to 300.

Rwy 30, 300-1¾ or std w/min climb of 290'/NM to 400.

DEPARTURE PROCEDURE:

Rwy 12, climb on heading 123° to 500, then climbing left turn direct SJC VOR/DME before proceeding on course.

Rwy 30, climb on heading 303° to 600, then climbing right turn direct SJC VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12, pole 9' from DER, 267' right of centerline, 25' MSL.

Tree, pole, building beginning 9' from DER, 266' right of centerline, up to 51' AGL/57' MSL.

Dam, terrain, light poles beginning 109' from DER, 58' left of centerline, up to 3' AGL/12' MSL.

Building, pole beginning 295' from DER, 266' right of centerline, up to 59' MSL.

Buildings, poles, electrical system, tree, sign beginning 472' from DER, 267' right of centerline, up to 61' MSL.

Transmission line 1669' from DER, 734' right of centerline, 92' AGL/94' MSL.

Poles, tree beginning 2409' from DER, 735' right of centerline, up to 106' MSL.

Transmission line 1.1 NM from DER, 2196' left of centerline, 200' AGL/208' MSL.

Rwy 30, pole 15' from DER, 286' right of centerline, 20' AGL/25' MSL.

Wind indicator, vehicle on road, sign beginning 18' from DER, 250' right of centerline, up to 26' MSL.

Poles, tree beginning 46' from DER, 283' left of centerline, up to 36' MSL.

Pole 79' from DER, 511' right of centerline, 36' MSL.

Electrical system, pole, vehicle on road, building, tree beginning 89' from DER, on centerline, up to 41' AGL/46' MSL.

Tree, building beginning 169' from DER, 392' left of centerline, up to 43' MSL.

Vehicle on road, pole, tree beginning 229' from DER, 10' left of centerline, up to 52' MSL.

Tree, light poles, pole beginning 852' from DER, 243' right of centerline, up to 48' MSL.

Electrical system, pole, tree, sign beginning 902' from DER, 346' left of centerline, up to 93' MSL.

Tree, pole beginning 1178' from DER, 347' right of centerline, up to 54' MSL.

Building, tree beginning 1342' from DER, 497' right of centerline, up to 76' MSL.

Poles, tower beginning 1891' from DER, 736' left of centerline, up to 112' MSL.

Tree, buildings beginning 2126' from DER, 809' right of centerline, up to 89' MSL.

Buildings, trees beginning 2454' from DER, 508' right of centerline, up to 102' MSL.

Buildings, trees beginning 2990' from DER, 514' right of centerline, up to 109' MSL.

Electrical system 3393' from DER, 737' left of centerline, 117' MSL.

Buildings beginning 3562' from DER, 363' right of centerline, up to 113' MSL.

Pole 15' from DER, 286' right of centerline, 20' AGL/25' MSL.

Wind indicator, vehicle on road, sign beginning 18' from DER, 250' right of centerline, up to 26' MSL.

Pole, tree beginning 46' from DER, 283' left of centerline, up to 36' MSL.

Pole 79' from DER, 511' right of centerline, 36' MSL.

Electrical system, pole, vehicle on road, building, tree beginning 89' from DER, on centerline, up to 41' AGL/46' MSL.

Tree, building beginning 169' from DER, 392' left of centerline, up to 43' MSL.

Vehicle on road, pole, tree beginning 229' from DER, 10' left of centerline, up to 52' MSL.

Tree, light poles, pole beginning 852' from DER, 243' right of centerline, up to 48' MSL.

Electrical system, pole, tree, sign beginning 902' from DER, 346' left of centerline, up to 93' MSL.

Tree, pole beginning 1178' from DER, 347' right of centerline, up to 54' MSL.

Building, tree beginning 1342' from DER, 497' right of centerline, up to 76' MSL.

Poles, tower beginning 1891' from DER, 736' left of centerline, up to 112' MSL.

Tree, buildings beginning 2126' from DER, 809' right of centerline, up to 89' MSL.

Buildings, trees beginning 2454' from DER, 508' right of centerline, up to 102' MSL.

Buildings, trees beginning 2990' from DER, 514' right of centerline, up to 109' MSL.

Electrical system 3393' from DER, 737' left of centerline, 117' MSL.

Buildings beginning 3562' from DER, 363' right of centerline, up to 113' MSL.

Building, pole beginning 1 NM from DER, 1523' right of centerline, up to 178' MSL.

Building 1 NM from DER, 1557' right of centerline, 211' AGL/217' MSL.

Building 1 NM from DER, 1332' right of centerline, 228' AGL/234' MSL.

Buildings beginning 1 NM from DER, 1001' right of centerline, up to 237' AGL/242' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 26MAY16 (16147) (FAA)

Rwy 12, headings as assigned by ATC; requires minimum climb of 470' per NM to 3400.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SAN FRANCISCO, CA

SAN FRANCISCO INTL (SFO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 24JUL14 (14205) (FAA)

TAKEOFF MINIMUMS:

Rwys 19L, 19R, std. w/min. climb of 575' per NM to 2000.

Rwys 28L, 28R, std. w/min. climb of 351' per NM to 1300.

DEPARTURE PROCEDURE:

Rwys 1L, 1R, climb heading 014° to 2000, thence ...

Rwys 10L, 10R, climbing left turn heading 053° to intercept SFO R-090 eastbound to 2300; thence ...

Rwys 19L, 19R, climbing left turn heading 053° to intercept SFO R-090 eastbound to 2600, thence ...

Rwys 28L, 28R, climb heading 284° to 2000, thence ...

... continue climb on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1 L, ships beginning 1646' from DER, right and left of centerline, up to 150' AGL/150' MSL.

Rwy 1R, ships beginning 1173' from DER, right and left of centerline, up to 150' AGL/150' MSL.

Rwy 10L, sign 62' from DER, 300' left of centerline, 4' AGL/15' MSL.

Building and rod on building beginning 257' from DER, 560' left of centerline, up to 14' AGL/24' MSL.

Rwy 19L, multiple poles beginning 548' from DER, 46' left of centerline, up to 20' AGL/480' MSL.

Multiple poles and signs beginning 652' from DER, 337' right of centerline, up to 20' AGL/38' MSL.

Multiple buildings, transmission towers, poles, trees, signs, electrical system beginning 937' from DER, 11' left of centerline, up to 100' AGL/127' MSL.

Multiple buildings, transmission towers, poles, trees, signs, electrical system beginning 887' from DER, 61' right of centerline, up to 100' AGL/128' MSL.

Multiple buildings 3831' from DER, 1138' left of centerline, up to 105' AGL/127' MSL.

Multiple buildings and trees beginning 3831' from DER, 74' right of centerline up to 100' AGL/167' MSL.

Rwy 19R, multiple poles, trees, electrical system beginning 454' from DER, 82' right of centerline, up to 40' AGL/60' MSL.

Multiple transmission towers, trees beginning 918' from DER, 7' left of centerline, up to 80' AGL/96' MSL.

Poles and electrical system 1188' from DER, 1' right of centerline, 44' AGL/50' MSL.

Multiple transmission towers, trees beginning 1617' from DER, 16' right of centerline, up to 80' AGL/85' MSL.

Rwy 28L, sign 19' from DER, 500' right of centerline, 5' AGL/9' MSL.

Obstruction lights on DME beginning 277' from DER, 162' left of centerline, up to 16' AGL/26' MSL.

Obstruction light on localizer beginning 219' from DER, on centerline, up to 10' AGL/17' MSL.

Multiple poles, electrical system beginning 824' from DER, 300' left of centerline, up to 40' AGL/56' MSL.

Multiple buildings, transmission towers, tank and pole beginning 1305' from DER, 370' left of centerline, up to 95' AGL/103' MSL.

Rwy 28R, multiple signs, beginning 23' from DER, 140' right of centerline, up to 5' AGL/10' MSL.

Terrain beginning 58' from DER, 146' right of centerline, up to 10' MSL.

Sign, 63' from DER, 250' left of centerline 5' AGL/8' MSL.

Terrain beginning 130' from DER, 235' left of centerline, up to 10' MSL.

Antenna on building, obstruction light on DME, tree, beginning 556' from DER, 268' right of centerline, up to 35' AGL/43' MSL.

Multiple poles beginning 918' from DER, 598' left of centerline, up to 22' AGL/35' MSL.

Multiple buildings, trees beginning 1467' from DER, 683' right of centerline, up to 60' AGL/68' MSL.

Multiple buildings, transmission towers, trees and electrical system beginning 1826' from DER, 123' left of centerline, up to 95' AGL/103' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20AUG15 (15232) (FAA)

Rwys 1L, 1R, headings as assigned by ATC; requires min. climb of 420' per NM to 2600.

Rwys 10L, 10R, headings as assigned by ATC.

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE INTL (SJC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6C 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:

Rwys 12L/R, 400-2½ or std. w/min. climb of 261' per NM to 500.

DEPARTURE PROCEDURE:

Rwys 12L/R, climbing right turn to 2000 on Heading 318° and on OAK R-135 to OAK VOR/DME before proceeding on course.

Rwys 30L/R, climb via heading 315° to 2000, then via OAK R-132 to OAK VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12L, fence 156' from DER, 57' left of centerline, 14' AGL/73' MSL.

Oil on blast fence, 156' from DER, 57' left of centerline, 73' MSL.

Pole 191' from DER, 81' left of centerline, 34' AGL/93' MSL.

Trees beginning 286' from DER, 161' right of centerline, up to 107' MSL.

T-L twr, pole beginning 466' from DER, 228' left of centerline, up to 46' AGL/105' MSL.

Tree 1281' from DER, 529' left of centerline, 117' MSL.

T-L twr 1731' from DER, 729' left of centerline, 86' AGL/156' MSL.

Tree 1799' from DER, 273' left of centerline, 144' MSL.

Tree 1887' from DER, 68' right of centerline, 124' MSL.

T-L twr 3047' from DER, 543' left of centerline, 73' AGL/147' MSL.

Building 1.2 NM from DER, 630' left of centerline, 170' AGL/250' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SAN JOSE, CA (CON'T)

NORMAN Y MINETA SAN JOSE INTL (SJC) (CON'T)

Rwy 12L (CON'T), building 1.3 NM from DER, 1051' left of centerline, 265' MSL.

Building 1.3 NM from DER, 445' left of centerline, 217' AGL/301' MSL.

Building 1.3 NM from DER, 51' left of centerline, 228' AGL/309' MSL.

Buildings beginning 1.3 NM from DER, 81' left of centerline, up to 312' MSL.

Building 1.5 NM from DER, 975' left of centerline, 262' AGL/351' MSL.

Building 1.5 NM from DER, 1591' left of centerline, 268' AGL/358' MSL.

Buildings beginning 1.5 NM from DER, 82' left of centerline, up to 365' MSL.

Buildings beginning 1.6 NM from DER, 280' right of centerline, up to 346' MSL.

Buildings beginning 1.6 NM from DER, 350' right of centerline, up to 260' AGL/350' MSL.

Building 1.6 NM from DER, 1977' left of centerline, 286' AGL/368' MSL.

Buildings beginning 1.6 NM from DER, 640' left of centerline, up to 274' AGL/370' MSL.

Building 1.9 NM from DER, 313' right of centerline, 284' AGL/373' MSL.

Building 1.9 NM from DER, 282' right of centerline, 281' AGL/372' MSL.

Rwy 12R, ol on loc 10' from DER, on centerline, 68' MSL.

Ol on blast fence 45' from DER, 115' right of centerline, 75' MSL.

Fence 45' from DER, 115' right of centerline, 14' AGL/75' MSL.

Tree 269' from DER, 149' right of centerline, 100' MSL.

Trees, beginning 285' from DER, 193' left of centerline, up to 107' MSL.

Rd 338' from DER, 2' right of centerline, 82' MSL.

Tree, pole beginning 519' from DER, 279' right of centerline, up to 122' MSL.

Trees beginning 1798' from DER, 631' left of centerline, up to 144' MSL.

Poles beginning 1948' from DER, 688' right of centerline, up to 59' AGL/128' MSL.

Tree 2604' from DER, 551' right of centerline, 133' MSL.

T-L twr 3046' from DER, 1243' left of centerline, 73' AGL/147' MSL.

Tree 3079' from DER, 873' right of centerline, 142' MSL.

Building 1.3 NM from DER, 1145' left of centerline, 217' AGL/301' MSL.

Building 1.3 NM from DER, 751' left of centerline, 228' AGL/309' MSL.

Buildings beginning 1.3 NM from DER, 781' left of centerline, up to 312' MSL.

Building 1.5 NM from DER, 1676' left of centerline, 262' AGL/351' MSL.

Building 1.5 NM from DER, 2291' left of centerline, 268' AGL/358' MSL.

Buildings beginning 1.5 NM from DER, 134' left of centerline, up to 365' MSL.

Building 1.6 NM from DER, 2678' left of centerline, 286' AGL/368' MSL.

Buildings beginning 1.6 NM from DER, 1340' left of centerline, up to 274' AGL/370' MSL.

Building 1.6 NM from DER, 345' right of centerline, 320' MSL.

Building 1.9 NM from DER, 386' left of centerline, 284' AGL/373' MSL.

Building 1.9 NM from DER, 417' left of centerline, 281' AGL/372' MSL.

Rwy 30L, poles beginning 166' from DER, 494' left of centerline, up to 69' MSL.

NAVAID 174' from DER, on centerline, 7' AGL/44' MSL.

Fence 184' from DER, 369' right of centerline, 15' AGL/51' MSL.

Tree 308' from DER, 424' left of centerline, 71' MSL.

Tree, pole beginning 473' from DER, 118' right of centerline, up to 72' MSL.

Poles beginning 711' from DER, 544' right of centerline, up to 75' MSL.

NAVAID 782' from DER, 350' left of centerline, 47' AGL/83' MSL.

Pole 1227' from DER, 607' left of centerline, 48' AGL/86' MSL.

Pole 1315' from DER, 548' right of centerline, 49' AGL/80' MSL.

Pole 1329' from DER, 743' left of centerline, 57' AGL/94' MSL.

Tree 1852' from DER, 179' right of centerline, 85' MSL.

Tree 2561' from DER, 738' right of centerline, 108' MSL.

Trmsn twr, l-l twr, beginning 2616' from DER, 1130' left of centerline, up to 120' MSL.

Pole 2806' from DER, 1215' left of centerline, 135' MSL.

Pole 2897' from DER, 614' left of centerline, 113' MSL.

Pole, l-l twr, beginning 4145' from DER, 1329' left of centerline, up to 152' MSL.

Rwy 30R, pole 100' from DER, 449' right of centerline, 40' AGL/75' MSL.

Fence 138' from DER 243' right of centerline, 13' AGL/47' MSL.

Fence 184' from DER, 329' left of centerline, 15' AGL/51' MSL.

Tree 411' from DER, 37' left of centerline, 70' MSL.

Tree 473' from DER, 319' left of centerline, 72' MSL.

Pole 526' from DER, 580' left of centerline, 26' AGL/61' MSL.

Pole 657' from DER, 369' right of centerline, 53' AGL/84' MSL.

Vehicle on rd beginning 688' from DER, on centerline, up to 68' MSL.

Poles beginning 711' from DER, 57' left of centerline, up to 25' AGL/75' MSL.

Pole 961' from DER, 133' right of centerline, 56' AGL/88' MSL.

Pole 1315' from DER, 150' left of centerline, 49' AGL/80' MSL.

Tree 1852' from DER, 519' left of centerline, 85' MSL.

Tree 2561' from DER, 39' right of centerline, 108' MSL.

Building 3424' from DER, 146' right of centerline, 96' AGL/124' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 21JUL16 (16203) (FAA)

Rwys 12L/R, heading as assigned by ATC; requires min. climb of 470' per NM to 5600.

Rwys 30L/R, heading as assigned by ATC; requires min. climb of 490' per NM to 5600 and do not exceed 210 KTS until established on assigned heading.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SAN JOSE, CA (CON'T)

REID-HILLVIEW OF SANTA CLARA COUNTY (RHW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
TAKEOFF MINIMUMS:
Rwys 13L, 13R, NA - environmental.
DEPARTURE PROCEDURE:
Use DECOT DEPARTURE.

SAN MARTIN, CA

SAN MARTIN (E16)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 05NOV20 (20310) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, 3600-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 14, climb on heading 141° to 5000 and SNS R-355 to SNS VORTAC before proceeding on course.

VCOA:

Rwy 32, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross San Martin Airport at or above 3700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, traverse way, vegetation beginning 50' from DER, 104' left of centerline, up to 291' MSL.

Pole, traverse way, fence, trees beginning 259' from DER, 81' left of centerline, up to 30' AGL/308' MSL.

Traverse way 344' from DER, 17' right of centerline, up to 286' MSL.

Antenna 1568' from DER, 620' left of centerline, 55' AGL/319' MSL.

Trees beginning 1571' from DER, 601' right of centerline, up to 71' AGL/338' MSL.

Rwy 32, traverse way 73' from DER, 429' right of centerline, 300' MSL.

Traverse way 127' from DER, 321' right of centerline, 301' MSL.

Tree 169' from DER, 537' right of centerline, 303' MSL.

Pole, traverse way, trees beginning 213' from DER, 173' right of centerline, up to 37' AGL/321' MSL.

Traverse way 387' from DER, 575' left of centerline, 300' MSL.

Trees, pole, traverse way beginning 545' from DER, 46' left of centerline, up to 321' MSL.

Traverse way beginning 1171' from DER, 71' right of centerline, up to 323' MSL.

Traverse way, trees beginning 1172' from DER, 188' right of centerline, up to 327' MSL.

Tree 1486' from DER, 668' left of centerline, 335' MSL.

Trees beginning 1573' from DER, 297' left of centerline, up to 337' MSL.

Tree 1670' from DER, 655' right of centerline, 330' MSL.

Tree 1708' from DER, 87' right of centerline, 331' MSL.

Tree 1837' from DER, 328' left of centerline, 342' MSL.

Trees beginning 1880' from DER, 177' right of centerline, up to 340' MSL.

Trees beginning 2045' from DER, 331' left of centerline, up to 350' MSL.

Tree 2146' from DER, 888' right of centerline, 341' MSL.

Trees beginning 2217' from DER, 194' right of centerline, up to 72' AGL/364' MSL.

Trees beginning 2319' from DER, 342' left of centerline, up to 357' MSL.

Tree 2984' from DER, 1021' left of centerline, 378' MSL.

Tree 3137' from DER, 946' left of centerline, 381' MSL.

SANTA ROSA, CA

CHARLES M SCHULZ-SONOMA COUNTY (STS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8 17JUN21 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std. w/min. climb of 300' per NM to 2100 or 1500-3 for VCOA.**Rwy 14**, std. w/min. climb of 285' per NM to 2500 or 1500-3 for VCOA.**Rwy 20**, std. w/min. climb of 265' per NM to 2200 or 1500-3 for VCOA.**Rwy 32**, std. w/min. climb of 375' per NM to 2200 or 1500-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 2, climbing left turn to 2100 on a heading between 200° CW to 305° from DER before proceeding on course.**Rwy 14**, climb to 2500 on a heading between 110° CW to 315° from DER before proceeding on course.**Rwy 20**, climb to 2200 on a heading between 100° CW to 250° from DER before proceeding on course.**Rwy 32**, climbing left turn to 2200 on a heading between 145° CW to 315° from DER before proceeding on course.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance.

Rwys 2, 14, 20, 32 climb in visual conditions to cross Charles M Schulz- Sonoma County airport at or above 1400 before proceeding southbound on PYE R-349 to PYE VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 2, tree 515' from DER, 561' right of centerline, 145' MSL.

Tree, pole beginning 629' from DER, 19' right of centerline, up to 156' MSL.

Tree 971' from DER, 369' left of centerline, 42' AGL/148' MSL.

Tree 985' from DER, 216' left of centerline, 149' MSL.

Trees beginning 1053' from DER, 215' left of centerline, up to 150' MSL.

Trees beginning 1153' from DER, 146' left of centerline, up to 156' MSL.

Trees beginning 1328' from DER, 478' right of centerline, up to 168' MSL.

Trees beginning 1604' from DER, 639' left of centerline, up to 166' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SANTA ROSA, CA (CON'T)

CHARLES M SCHULZ-SONOMA COUNTY (STS) (CON'T)

Rwy 2 (CON'T), trees beginning 1638' from DER, 786' right of centerline, up to 184' MSL.

Trees beginning 1846' from DER, 619' left of centerline, up to 65' AGL/174' MSL.

Trees beginning 2145' from DER, 344' right of centerline, up to 190' MSL.

Trees beginning 2299' from DER, 342' right of centerline, up to 191' MSL.

Tree 2679' from DER, 443' right of centerline, 196' MSL.

Rwy 14, pole 6' from DER, 40' left of centerline, 121' MSL.

Tree 409' from DER, 602' left of centerline, 138' MSL.

Tree 778' from DER, 649' left of centerline, 146' MSL.

Tree 972' from DER, 629' left of centerline, 147' MSL.

Trees beginning 1202' from DER, 599' left of centerline, up to 155' MSL.

Tree 1336' from DER, 759' left of centerline, 167' MSL.

Tree 2136' from DER, 778' right of centerline, 174' MSL.

Tree 2194' from DER, 1033' right of centerline, 180' MSL.

Tree 5322' from DER, 1543' left of centerline, 255' MSL.

Rwy 20, tree 107' from DER, 461' right of centerline, 40' AGL/162' MSL.

Trees beginning 1497' from DER, 731' right of centerline, up to 248' MSL.

Tree 1595' from DER, 482' left of centerline, 171' MSL.

Tree 1679' from DER, 404' left of centerline, 187' MSL.

Tree 1693' from DER, 934' right of centerline, 137' AGL/269' MSL.

Trees beginning 1705' from DER, 566' right of centerline, up to 144' AGL/274' MSL.

Tree 2840' from DER, 1174' left of centerline, 228' MSL.

Rwy 32, tree 88' from DER, 472' left of centerline, 147' MSL.

Trees beginning 263' from DER, 425' left of centerline, up to 153' MSL.

Tree 642' from DER, 450' right of centerline, 143' MSL.

Tree 700' from DER, 548' right of centerline, 158' MSL.

Trees beginning 797' from DER, 470' left of centerline, up to 154' MSL.

Trees beginning 902' from DER, 609' right of centerline, up to 172' MSL.

Tree 1298' from DER, 370' left of centerline, 155' MSL.

Trees beginning 1701' from DER, 140' left of centerline, up to 174' MSL.

Tree 3187' from DER, 139' left of centerline, 167' AGL/257' MSL.

SOUTH LAKE TAHOE, CA

LAKE TAHOE (TVL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, std. w/min. climb of 810' per NM to 10800, or alternatively, 1600-3 w/min. climb of 765' per NM to 10800, or 5100-5 for VCOA.

Rwy 36, 300-1% or std. w/min. climb of 755' per NM to 6500.

DEPARTURE PROCEDURE:

Rwy 18, climb heading 177° to 7900 then climbing right turn to intercept and climb on SWR R-133 to SWR VOR/DME thence...

Rwy 36, climb heading 357° to intercept and climb on SWR R-113 to SWR VOR/DME thence...

...Proceed on course.

VCOA:

Rwy 18, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross South Lake Tahoe Airport at or above 11200' MSL then intercept and proceed on SWR R-127 to SWR VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 18, pole 10' from DER, 40' left of centerline, 2' AGL/6270' MSL.

Vehicles on road, sign beginning 16' from DER, 247' right of centerline, up to 6282' MSL.

Trees beginning 19' from DER, 378' left of centerline, up to 88' AGL/6354' MSL.

Trees, vehicles on road, vegetation, terrain, pole beginning 140' from DER, 20' right of centerline, up to 88' AGL/6355' MSL.

Pole, trees beginning 263' from DER, 4' left of centerline, up to 102' AGL/6369' MSL.

Trees beginning 917' from DER, 1' left of centerline, up to 111' AGL/6388' MSL.

Trees beginning 1095' from DER, 8' right of centerline, up to 107' AGL/6392' MSL.

Trees beginning 1702' from DER, on centerline, up to 6403' MSL.

Trees beginning 1960' from DER, 6' left of centerline, up to 98' AGL/6412' MSL.

Trees, poles beginning 2021' from DER, 1' right of centerline, up to 6416' MSL.

Trees beginning 2392' from DER, 8' left of centerline, up to 113' AGL/6418' MSL.

Trees, buildings beginning 2441' from DER, 1' left of centerline, up to 6419' MSL.

Trees, buildings, vehicles on road, poles, antenna, vegetation beginning 2712' from DER, on centerline, up to 91' AGL/6420' MSL.

Tree 2.5 NM from DER, 1451' left of centerline, 7837' MSL.

Rwy 36, sign 9' from DER, 212' left of centerline, 4' AGL/6256' MSL.

Vehicle on road 18' from DER, 360' left of centerline, 6266' MSL.

Trees, vehicle on road beginning 51' from DER, 330' right of centerline, up to 47' AGL/6296' MSL.

Tree, pole, terrain, fence beginning 142' from DER, 236' right of centerline, up to 50' AGL/6302' MSL.

Trees beginning 175' from DER, 210' right of centerline, up to 44' AGL/6312' MSL.

Trees beginning 225' from DER, 173' right of centerline, up to 47' AGL/6319' MSL.

Trees beginning 459' from DER, 181' right of centerline, up to 58' AGL/6328' MSL.

Trees, vehicles on road beginning 593' from DER, 52' right of centerline, up to 59' AGL/6330' MSL.

Trees, vehicles on road beginning 768' from DER, 84' right of centerline, up to 71' AGL/6340' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SOUTH LAKE TAHOE, CA (CON'T)

LAKE TAHOE (TVL) (CON'T)

- Rwy 36 (CON'T)**, trees, vehicles on road beginning 953' from DER, 143' right of centerline, up to 67' AGL/6348' MSL.
Trees, vehicles on road beginning 1116' from DER, 104' right of centerline, up to 54' AGL/6355' MSL.
Tree 1324' from DER, 564' right of centerline, 62' AGL/6370' MSL.
Tree 1331' from DER, 761' right of centerline, 61' AGL/6379' MSL.
Trees, vehicles on road beginning 1382' from DER, 142' right of centerline, up to 6382' MSL.
Trees beginning 1497' from DER, 161' right of centerline, up to 69' AGL/6391' MSL.
Trees, vehicles on road, terrain beginning 1520' from DER, 41' left of centerline, up to 6402' MSL.
Trees, vehicles on road, fence, NAVAID, poles, tower beginning 1838' from DER, 5' left of centerline, up to 74' AGL/6427' MSL.
Trees beginning 5300' from DER, 377' right of centerline, up to 133' AGL/6430' MSL.
Trees beginning 1 NM from DER, 703' right of centerline, up to 6436' MSL.
Trees beginning 1 NM from DER, 1100' right of centerline, up to 134' AGL/6420' MSL

STOCKTON, CA

STOCKTON METRO (SCK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20JUN19 (21168) (FAA)

TAKEOFF MINIMUMS:

Rwy 29R, 200-1¼ or std. w/min. climb of 215' per NM to 300 or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400' prior to DER.

TAKEOFF OBSTACLE NOTES:

- Rwy 11L**, building 231' from DER, 401' left of centerline, 8' AGL/39' MSL.
Traverse way 413' from DER, 456' left of centerline, 49' MSL.
Rwy 11R, traverse way 61' from DER, 486' right of centerline, 43' MSL.
Lighting 122' from DER, 415' left of centerline, 2' AGL/29' MSL.
Rwy 29L, traverse way, aircraft parking, electrical system beginning 132' from DER, 235' left of centerline, up to 45' MSL.
Buildings beginning 424' from DER, 369' left of centerline, up to 61' MSL.
Building 2946' from DER, 1215' left of centerline, 102' MSL.
Building 2963' from DER, 1203' left of centerline, 97' AGL/117' MSL.
Stack, building beginning 5568' from DER, 1600' right of centerline, up to 150' AGL/171' MSL.
Rwy 29R, fence, trees beginning 181' from DER, 5' right of centerline, up to 18' AGL/41' MSL.
Fence, trees, traverse way, pole beginning 208' from DER, 1' left of centerline, up to 17' AGL/41' MSL.
Poles, traverse way beginning 255' from DER, 35' right of centerline, up to 32' AGL/55' MSL.
Poles beginning 528' from DER, 305' left of centerline, up to 31' AGL/54' MSL.
Pole 653' from DER, 515' left of centerline, 32' AGL/55' MSL.
Pole 834' from DER, 693' left of centerline, 38' AGL/60' MSL.
Pole 1587' from DER, 857' left of centerline, 48' AGL/69' MSL.
Elevator 4480' from DER, 868' right of centerline, 122' AGL/141' MSL.
Stack, buildings beginning 4599' from DER, 827' right of centerline, up to 150' AGL/171' MSL.
Elevator, building beginning 1 NM from DER 1878' left of centerline, up to 174' AGL/191' MSL.

SUSANVILLE, CA

SUSANVILLE MUNI (SVE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25DEC03 (03359) (FAA)

DEPARTURE PROCEDURE:

Use AMEDEE DEPARTURE.

TRACY, CA

TRACY MUNI (TCY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22OCT09 (09295) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, 700-3 or std. w/ a min. climb of 320' per NM to 1000.

DEPARTURE PROCEDURE:

- Rwy 8**, climb to 3000 via heading 073° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.
Rwy 12, climbing left turn to 3000 to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.
Rwy 26, climbing right turn to 3000 via heading 150° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.
Rwy 30, climbing right turn to 3000 via heading 150° to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES:

- Rwy 8**, tree 472' from DER, 198' left of centerline, 50' AGL/194' MSL.
Fence 167' from DER, 8' right of centerline, 25' AGL/176' MSL.
Vehicle on road 241' from DER, 412' left of centerline, 15' AGL/183' MSL.
Vehicles on roads starting 241' from DER, 7' right of centerline, up to 15' AGL/189' MSL.
Poles starting 403' from DER, 204' left of centerline, up to 54' AGL/208' MSL.
Poles starting 727' from DER, 49' right of centerline, up to 54' AGL/212' MSL.
Rwy 12, trees starting 436' from DER, 251' right of centerline, up to 72' AGL/253' MSL.
Conveyor 1995' from DER, 504' left of centerline, 66' AGL/ 270' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TRACY, CA (CON'T)

TRACY MUNI (TCY) (CON'T)

Rwy 12 (CON'T), poles starting 832' from DER, 396' right of centerline, up to 56' AGL/240' MSL.

Obstruction light on hopper 1934' from DER, 274' right of centerline, 74' AGL/255' MSL.

Vehicles on road starting 133' from DER, 272' left of centerline, up to 15' AGL/206' MSL.

Fence 32' from DER 405' left of centerline, 25' AGL/194' MSL.

Rwy 36, tree 1173' from DER, 180' right of centerline, 35' AGL/234' MSL.

Trees starting 1067' from DER, 125' left of centerline, up to 35' AGL/794' MSL.

Vehicle on road 236' from DER, 150' left of centerline, 15' AGL/214' MSL.

Fence 69' from DER, 133' left of centerline, 23' AGL/203' MSL.

Rising terrain 11105' from DER, 2814' left of centerline, up to 739' MSL.

Rwy 30, trees starting 438' from DER, 30' right of centerline, up to 35' AGL/209' MSL.

Tree 1079' from DER, 82' left of centerline, 35' AGL/214' MSL.

Obstruction light on hopper 985' from DER, 353' right of centerline, 72' AGL/236' MSL.

Bush 195' from DER, 364' left of centerline, 25' AGL/189' MSL.

Light pole 1149' from DER, 160' left of centerline, 47' AGL/211' MSL.

Obstruction light on building 2289' from DER, 65' right of centerline, 74' AGL/238' MSL.

TRAVIS AFB (KSUU)

FAIRFIELD, CA

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

23APR20 (20114)

TAKEOFF MINIMUMS:

All Rwys, std. w/min climb of 305' per NM to 4000, or 2400-3 for VCOA

VCOA:

All Rwys, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Travis AFB airport at or above 2300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, potential acft 23' to 1290' from DER, 500' left of cntrin, 65' AGL/120' MSL.

Potential acft 620' to 1925' from DER, 600' right of cntrin, 65' AGL/125' MSL.

Parked acft 860' to 1780' from DER, 770' left of cntrin, 58' AGL/125' MSL.

Potential acft 1925' from DER, 385' left and right of cntrin, 65' AGL/125' MSL.

Rwy 3R, pylon 5508' from DER, 1641' left of cntrin, 105' AGL/154' MSL.

Rwy 21L, potential acft 210' from DER, 650' right of cntrin, 65' AGL/118' MSL.

Light poles 140' to 920' from DER, 550' to 670' left of cntrin, 50' AGL/82' MSL.

TRUCKEE, CA

TRUCKEE-TAHOE (TRK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 29DEC22 (22363) (FAA)

TAKEOFF MINIMUMS:

Rwys 11, 20, NA-Obstacles.

DEPARTURE PROCEDURE:

Rwys 2, 29, use TRUCK DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 2, trees, electrical system beginning 32' from DER, 189' left of centerline, up to 5934' MSL.

Trees beginning 448' from DER, 431' right of centerline, up to 5968' MSL.

Trees beginning 1 NM from DER, 1765' right of centerline, up to 6078' MSL.

Tree 1 NM from DER, 1920' right of centerline, 6125' MSL.

Trees beginning 1 NM from DER, 1540' right of centerline, up to 6130' MSL.

Tree 1.1 NM from DER, 2002' right of centerline, 6145' MSL.

Tree 1.1 NM from DER, 1766' right of centerline, 6153' MSL.

Trees beginning 1.1 NM from DER, 1340' right of centerline, up to 6154' MSL.

Trees beginning 1.1 NM from DER, 1302' right of centerline, up to 6182' MSL.

Trees beginning 1.1 NM from DER, 1115' right of centerline, up to 6242' MSL.

Trees beginning 1.1 NM from DER, 1067' right of centerline, up to 6248' MSL.

Trees beginning 1.2 NM from DER, 1147' right of centerline, up to 6253' MSL.

Trees beginning 1.2 NM from DER, 1351' right of centerline, up to 6266' MSL.

Trees beginning 1.2 NM from DER, 929' right of centerline, up to 6272' MSL.

Trees beginning 1.2 NM from DER, 818' right of centerline, up to 6280' MSL.

Trees beginning 1.3 NM from DER, 1744' right of centerline, up to 6281' MSL.

Trees beginning 1.3 NM from DER, 639' right of centerline, up to 6288' MSL.

Trees beginning 1.3 NM from DER, 433' right of centerline, up to 6305' MSL.

Trees, building beginning 1.4 NM from DER, 40' right of centerline, up to 6315' MSL.

Tree 1.5 NM from DER, 7' left of centerline, 6137' MSL.

Rwy 29, sign 23' from DER, 157' left of centerline, 3' AGL/5902' MSL.

Trees beginning 73' from DER, 400' right of centerline, up to 5968' MSL.

Pole 144' from DER, 217' left of centerline, 6' AGL/5905' MSL.

Trees beginning 206' from DER, 55' right of centerline, up to 5971' MSL.

Tree 213' from DER, 546' left of centerline, 5923' MSL.

Trees beginning 637' from DER, 81' left of centerline, up to 6005' MSL.

Tree 5956' from DER, 542' right of centerline, 6058' MSL.

Trees beginning 1.6 NM from DER, 1356' left of centerline, up to 6153' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

TRUCKEE, CA (CON'T)

TRUCKEE-TAHOE (TRK) (CON'T)

Rwy 29 (CON'T), trees beginning 1.6 NM from DER, 1384' left of centerline, up to 6197' MSL.
Trees, water tower beginning 1.6 NM from DER, 1738' left of centerline, up to 6206' MSL.
Trees, pole beginning 1.6 NM from DER, 249' left of centerline, up to 6268' MSL.
Tree 1.8 NM from DER, 3070' right of centerline, 6192' MSL.
Tree 1.8 NM from DER, 2728' right of centerline, 6197' MSL.
Tree 1.8 NM from DER, 1614' right of centerline, 6204' MSL.
Trees beginning 1.8 NM from DER, 1108' right of centerline, up to 6211' MSL.
Tree 1.8 NM from DER, 2581' right of centerline, 6259' MSL.
Trees beginning 1.8 NM from DER, 2144' right of centerline, up to 6265' MSL.
Trees beginning 1.9 NM from DER, 183' right of centerline, up to 6266' MSL.
Tree 1.9 NM from DER, 3540' right of centerline, 6308' MSL.
Tree 1.9 NM from DER, 3135' right of centerline, 6351' MSL.
Trees beginning 1.9 NM from DER, 307' right of centerline, up to 6379' MSL.
Tree 2 NM from DER, 3583' right of centerline, 6391' MSL.
Trees beginning 2 NM from DER, 1301' right of centerline, up to 6458' MSL.
Trees beginning 2 NM from DER, 535' right of centerline, up to 6468' MSL.
Tree 2 NM from DER, 639' left of centerline, 6270' MSL.
Tree 2.1 NM from DER, 2242' left of centerline, 6315' MSL.
Trees beginning 2.1 NM from DER, 50' left of centerline, up to 6332' MSL.
Tree 2.1 NM from DER, 2881' right of centerline, 6502' MSL.
Trees beginning 2.1 NM from DER, 214' right of centerline, up to 6505' MSL.
Tree 2.1 NM from DER, 2769' left of centerline, 6439' MSL.
Trees beginning 2.1 NM from DER, 259' left of centerline, up to 6440' MSL.
Tree 2.1 NM from DER, 3037' right of centerline, 6547' MSL.
Trees beginning 2.1 NM from DER, 636' right of centerline, up to 6573' MSL.
Trees beginning 2.2 NM from DER, 1171' right of centerline, up to 6583' MSL.
Trees beginning 2.2 NM from DER, 733' left of centerline, up to 6460' MSL.
Trees, building beginning 2.2 NM from DER, 20' left of centerline, up to 6549' MSL.
Trees beginning 2.2 NM from DER, 525' right of centerline, up to 6612' MSL.
Trees beginning 2.3 NM from DER, 1111' right of centerline, up to 6657' MSL.
Tree beginning 2.3 NM from DER, 2179' right of centerline, up to 6682' MSL.
Trees beginning 2.3 NM from DER, 412' right of centerline, up to 6731' MSL.
Trees beginning 2.4 NM from DER, 371' right of centerline, up to 6776' MSL.
Tower 2.5 NM from DER, 2714' right of centerline, 93' AGL/6817' MSL.
Antenna, trees beginning 2.5 NM from DER, 73' right of centerline, up to 88' AGL/6822' MSL.

TULARE, CA

MEFFORD FLD (TLR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 24MAR22 (22083) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climb on heading 135° and TTE R-294 to TULE (TTE) VOR/DME, thence...

Rwy 31, climb on heading 315° to 1500, then climbing left turn to intercept TTE R-294 to TULE (TTE) VOR/DME, thence...

...cross TTE VOR/DME at or above 3000 and climb on course

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees beginning 71' from DER, 13' right of centerline, up to 60' AGL/349' MSL.

Fence 370' from DER crossing extended runway centerline, 6' AGL/280' MSL.

Hangers 200' from DER, 525' right of centerline up to 28' AGL/287' MSL.

Trees beginning 85' from DER, 27' left of centerline, up to 60' AGL/349' MSL.

Rwy 31, vehicle on road 83' from DER, 340' right of centerline, 279' MSL.

Vehicle on road beginning 210' from DER, 376' right of centerline, up to 280' MSL.

Vehicle on road 343' from DER, 415' left of centerline, 280' MSL.

Vehicle on road 492' from DER, 395' left of centerline, 281' MSL.

Vehicle on road 544' from DER, 416' right of centerline, 281' MSL.

Vehicle on road 684' from DER, 458' left of centerline, 283' MSL.

Sign 793' from DER, 424' left of centerline, 13' AGL/286' MSL.

Pole 1141' from DER, 547' left of centerline, 26' AGL/298' MSL.

Sign 1422' from DER, 542' right of centerline, 37' AGL/311' MSL.

Tower 3586' from DER, 580' left of centerline, 110' AGL/383' MSL.

UKIAH, CA

UKIAH MUNI (UKI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 03NOV22 (22307) (FAA)

TAKEOFF MINIMUMS:

Rwy 15, std. w/min. climb of 687' per NM to 3900 or 4000-3 for climb in visual conditions.

Rwy 33, std. w/min. climb of 350' per NM to 5000 or 4000-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 15, climb on heading 155° to 3800 before proceeding on course.

Rwy 33, climb on heading 335° to 4000, then climbing left turn direct ENI VORTAC, continue climb in ENI holding pattern (hold S, right turns, 022° inbound) to cross ENI VORTAC at or above MEA for route of flight.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

UKIAH, CA (CON'T) UKIAH MUNI (UKI) (CON'T)

VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Ukiah Muni airport at or above 4500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 15, general utility 13' from DER, 118' right of centerline, 6' AGL/610' MSL.
General utility 13' from DER, 115' left of centerline, 4' AGL/606' MSL.
Building, road beginning 34' from DER, 245' right of centerline, up to 16' AGL/625' MSL.
Tree, road beginning 112' from DER, 124' left of centerline, up to 629' MSL.
Building, sign, road beginning 116' from DER, 246' right of centerline, up to 628' MSL.
Pole 275' from DER, 357' right of centerline, 28' AGL/634' MSL.
Pole, road, building beginning 294' from DER, 4' right of centerline, up to 30' AGL/636' MSL.
Tree, pole beginning 527' from DER, 283' right of centerline, up to 647' MSL.
Pole, tree, building beginning 530' from DER, 150' right of centerline, up to 40' AGL/645' MSL.
Tree, building, pole beginning 555' from DER, 28' right of centerline, up to 696' MSL.
Trees beginning 1026' from DER, 338' left of centerline, up to 670' MSL.
Trees beginning 2193' from DER, 33' left of centerline, up to 674' MSL.
Trees beginning 2543' from DER, 418' right of centerline, up to 712' MSL.
Tree 2755' from DER, 31' left of centerline, 698' MSL.
Rwy 33, general utility 1' from DER, 137' left of centerline, 3' AGL/621' MSL.
Pole, road, tree beginning 27' from DER, 157' right of centerline, up to 27' AGL/635' MSL.
Terrain 130' from DER, 471' left of centerline, 623' MSL.
Pole, road beginning 269' from DER, 154' right of centerline, up to 36' AGL/645' MSL.
Tree 461' from DER, 555' left of centerline, 654' MSL.
Pole, road, tree beginning 543' from DER, 12' left of centerline, up to 53' AGL/679' MSL.
Pole beginning 572' from DER, 505' right of centerline, up to 41' AGL/647' MSL.
Transmission line, sign, tree beginning 894' from DER, 288' left of centerline, up to 65' AGL/691' MSL.
Transmission line, building, tree beginning 931' from DER, 411' right of centerline, up to 61' AGL/667' MSL.
Tree, pole, sign beginning 961' from DER, 9' left of centerline, up to 693' MSL.
Tree, transmission line, pole beginning 1357' from DER, 161' right of centerline, up to 668' MSL.
Trees beginning 1670' from DER, 407' right of centerline, up to 679' MSL.
Trees beginning 2593' from DER, 906' left of centerline, up to 708' MSL.
Trees beginning 2788' from DER, 878' left of centerline, up to 709' MSL.
Tree 5383' from DER, 1848' left of centerline, 752' MSL.
Tree 5948' from DER, 1814' left of centerline, 767' MSL.

VACAVILLE, CA NUT TREE (VCB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 20, std. w/ min. climb of 410' per NM to 1600, or 1200-2½ for VCOA .

DEPARTURE PROCEDURE:

Rwy 2, climbing right turn to intercept SAC R-242 to SAC VORTAC to 2000 before proceeding on course.

Rwy 20, climbing left turn to intercept SAC R-242 to SAC VORTAC to 2000 before proceeding on course.

VCOA:

Rwy 20, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Nut Tree airport eastbound at or above 1300 then climb to 2000 on SAC R-242 TO SAC VORTAC, proceed on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, parking lot, pole beginning 51' from DER, 290' right of centerline, up to 15' AGL/119' MSL.
Fence beginning 99' from DER, 210' left of centerline, up to 118' MSL.
Pole, parking lot, tree beginning 137' from DER, 417' left of centerline, up to 148' MSL.
Tree 948' from DER, 732' right of centerline, 141' MSL.
Pole 1099' from DER, 612' left of centerline, 149' MSL.
Rwy 20, terrain beginning 8' from DER, 253' right of centerline, up to 117' MSL.
Tree 61' from DER, 411' left of centerline, 51' AGL/163' MSL.
Terrain 140' from DER, 432' right of centerline, 124' MSL.
Tree 144' from DER, 538' left of centerline, 85' AGL/197' MSL.
Pole, terrain, fence beginning 206' from DER, 167' right of centerline, up to 12' AGL/130' MSL.
Tree 259' from DER, 506' left of centerline, 211' MSL.
Pole, ant, tree beginning 362' from DER, 497' left of centerline, up to 125' AGL/239' MSL.
Tree 544' from DER, 454' right of centerline, 135' MSL.
Tree, road (north) beginning 710' from DER, 393' right of centerline, up to 164' MSL.
Tree, pole, ant, terrain, chimney/smokestack, sign beginning 825' from DER, 22' left of centerline, up to 264' MSL.
Tree, pole beginning 1576' from DER, 344' right of centerline, up to 190' MSL.
T-1 tower, pole beginning 1860' from DER, 82' right of centerline, up to 55' AGL/191' MSL.
Terrain 2985' from DER, 1295' right of centerline, 195' MSL.
Terrain 3087' from DER, 1146' right of centerline, 198' MSL.
Terrain 3090' from DER, 1303' right of centerline, 210' MSL.
Terrain beginning 3155' from DER, 1128' right of centerline, up to 217' MSL.
Tree, terrain beginning 3252' from DER, 535' right of centerline, up to 241' MSL.
Terrain beginning 3635' from DER, 54' right of centerline, up to 248' MSL.
Terrain 4058' from DER, 110' right of centerline, 254' MSL.

CON'T

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

SW-2

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025

VACAVILLE, CA (CON'T) NUT TREE (VCB) (CON'T)

Rwy 20 (CON'T), terrain, tree beginning 4104' from DER, 18' right of centerline, up to 263' MSL.
Tree 5765' from DER, 1605' right of centerline, 264' MSL.

VISALIA, CA

VISALIA MUNI (VIS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 24MAR22 (22083) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climb on heading 121° to 1500, then climbing right turn direct TTE VOR/DME thence...

Rwy 30, climb on heading 301° to 1600, then climbing left turn to intercept the TTE R-300 to TULE (TTE) VOR/DME thence...

...cross TTE VOR/DME at or above MEA for the route of flight before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 12, vehicle on road 175' from DER, 252' right of centerline, 307' MSL.

Vehicle on road 178' from DER, 248' left of centerline, 308' MSL.

Tree 758' from DER, 616' right of centerline, 62' AGL/356' MSL.

Tree 1302' from DER, 817' left of centerline, 61' AGL/356' MSL.

Tree 3155' from DER, 737' left of centerline, 85' AGL/380' MSL.

Rwy 30, sign 17' from DER, 249' left of centerline, 3' AGL/292' MSL.

Fence beginning 59' from DER, 416' left of centerline, up to 7' AGL/296' MSL.

Trees, vehicle on road beginning 186' from DER, 269' left of centerline, up to 40' AGL/330' MSL.

Building 291' from DER, 249' right of centerline, 15' AGL/305' MSL.

Trees, vehicle on road beginning 791' from DER, 232' left of centerline, up to 332' MSL.

Building 849' from DER, 663' right of centerline, 327' MSL.

Tree 2663' from DER, 341' left of centerline, 370' MSL.

Tree 3035' from DER, 415' left of centerline, 379' MSL.

WATSONVILLE, CA

WATSONVILLE MUNI (WV1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 27, NA - airport obstacles.

DEPARTURE PROCEDURE:

Rwys 2, 9, 20, use WATSONVILLE DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 2, lighting 8' from DER, 84' left of centerline, 1' AGL/159' MSL.

Lighting 9' from DER, 84' right of centerline, 158' MSL.

Pole 14' from DER, 349' left of centerline, 205' MSL.

Pole, building, vehicles on road, tree and fence beginning 15' from DER, 322' left of centerline, up to 50' AGL/213' MSL.

Trees beginning 278' from DER, 414' right of centerline, up to 188' MSL.

pole, vehicles on road, stack, tree and building beginning 429' from DER, 157' left of centerline, up to 58' AGL/220' MSL.

pole, building and tree beginning 808' from DER, 22' right of centerline, up to 40' AGL/198' MSL.

Tree and transmission line beginning 1021' from DER, 137' right of centerline, up to 222' MSL.

Pole 1174' from DER, 328' right of centerline, 57' AGL/224' MSL.

Trees beginning 1275' from DER, 298' right of centerline, up to 242' MSL.

Tree 1345' from DER, 320' left of centerline, 236' MSL.

Tree 2249' from DER, 371' left of centerline, 264' MSL.

Rwy 9, tree and pole beginning 1' from DER, 152' left of centerline, up to 157' MSL.

Pole 65' from DER, 301' right of centerline, 31' AGL/148' MSL.

tree, fence, building, vehicles on road and pole beginning 74' from DER, 251' left of centerline, up to 160' MSL.

Pole, tree, building, tank and stack beginning 210' from DER, 139' left of centerline, up to 177' MSL.

Pole 231' from DER, 250' right of centerline, 32' AGL/153' MSL.

Trees beginning 312' from DER, 560' right of centerline, up to 173' MSL.

Tower, pole and tree beginning 828' from DER, 136' left of centerline, up to 52' AGL/181' MSL.

Trees beginning 915' from DER, 146' right of centerline, up to 197' MSL.

Tree 1815' from DER, 365' left of centerline, 215' MSL.

Tower 4697' from DER, 1365' right of centerline, 189' AGL/292' MSL.

Rwy 20, tree 57' from DER, 500' left of centerline, 153' MSL.

Fence 57' from DER, 268' right of centerline, 7' AGL/143' MSL.

Pole 95' from DER, 467' left of centerline, 175' MSL.

pole, vehicles on road and tree beginning 96' from DER, 377' left of centerline, up to 50' AGL/183' MSL.

Transmission line 848' from DER, 505' left of centerline, 44' AGL/184' MSL.

Tree and transmission line beginning 919' from DER, 520' left of centerline, up to 190' MSL.

Tree 1153' from DER, 286' right of centerline, 169' MSL.

Tree 1207' from DER, 615' left of centerline, 197' MSL.

Tree, building and transmission line beginning 1267' from DER, 318' left of centerline, up to 203' MSL.

Tree 1336' from DER, 7' right of centerline, 177' MSL.

Tree 1337' from DER, 46' right of centerline, 192' MSL.

Tree 2201' from DER, 776' right of centerline, 240' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

24025


TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

24025

WEED, CA

WEED (O46)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:

Use FOBRO (RNAV) DEPARTURE.

WILLITS, CA

ELLS FLD/WILLITS MUNI (O28)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD T 1 05AUG04 (21336) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, use MENDOCINO RNAV DEPARTURE.**Rwy 34**, use FLUEN RNAV DEPARTURE.**WILLOWS, CA**

WILLOWS/GLENN COUNTY (WLW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD T 2 22JUN17 (22027) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climbing right turn heading 150 to 1000 thence...**Rwy 16**, climbing left turn heading 145 to 1000 thence...**Rwy 31**, climbing left turn heading 140 to 1000 thence...**Rwy 34**, climbing right turn heading 150 to 1000 thence...

...all aircraft continue climb direct ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 13, vehicles beginning 325' from DER, 563' left of centerline, up to 17' AGL/146' MSL.**Rwy 16**, poles beginning 14' from DER, 409' right of centerline, up to 35' AGL/172' MSL.

Tree 232' from DER, 436 left of centerline, 149' MSL.

Rwy 34, tower 869' from DER, 434' right of centerline, 55' AGL/196 MSL.

Pole 909' from DER, 305 right of centerline, 24' AGL/165' MSL.

WOODLAND, CA

WATTS-WOODLAND (O41)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMD T 3 07MAY09 (09127) (FAA)

DEPARTURE PROCEDURE:

Rwy 18, climb heading 185° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course.**Rwy 36**, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 18, tree 2478' from DER, 283' right of centerline, 100' AGL/249' MSL.

Vehicle on road 192' from DER, on centerline, 15' AGL/144' MSL.

Rwy 36, tree 453' from DER, 69' left of centerline, 100' AGL/224' MSL.

Vehicle on road 350' from DER, on centerline, 15' AGL/134' MSL.

Tree 4489' from DER, 1688' left of centerline, 100' AGL/234' MSL.

22 FEB 2024 to 21 MAR 2024

22 FEB 2024 to 21 MAR 2024

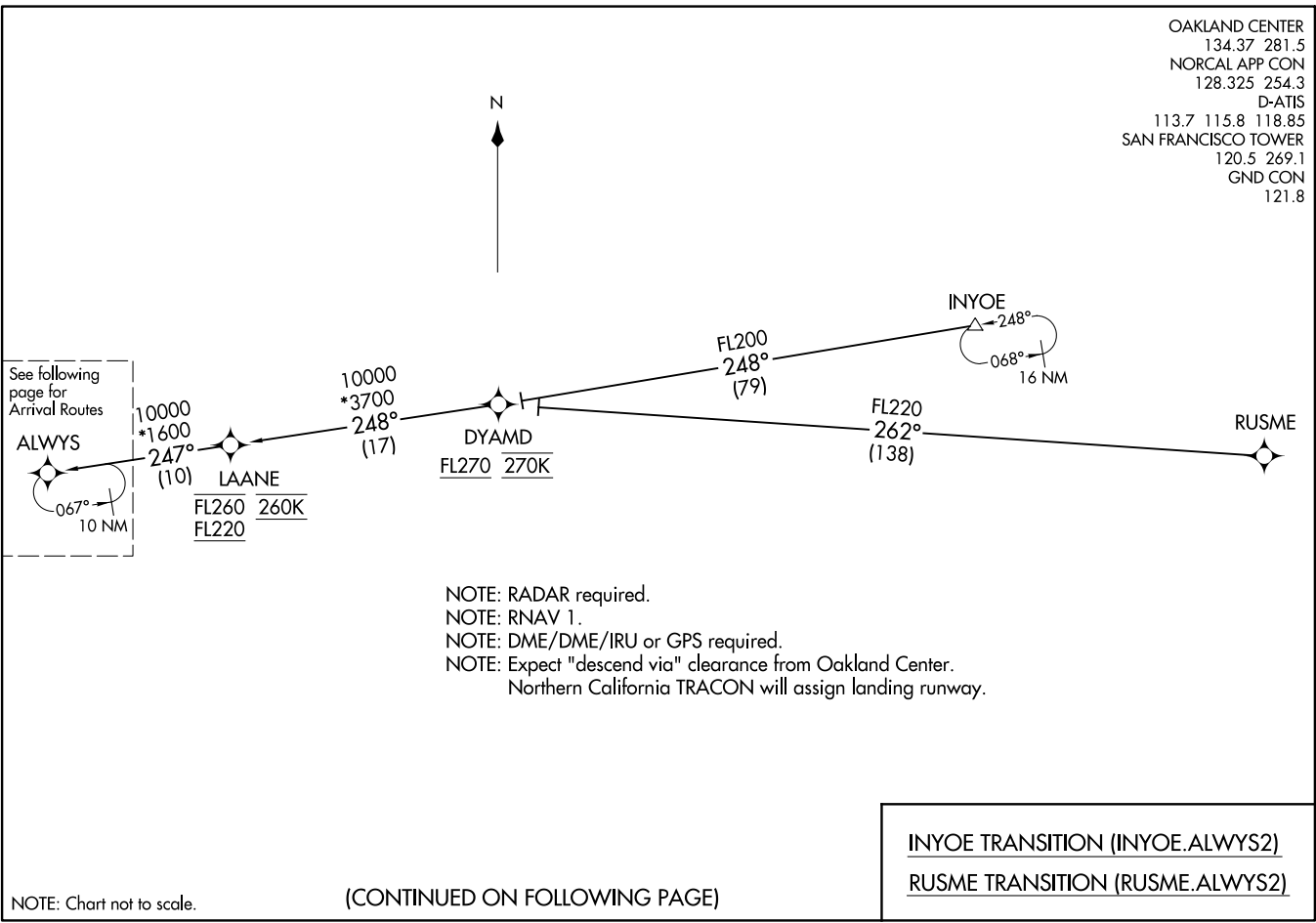

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

24025

ALWAYS TWO ARRIVAL (RNAV) Transition Routes
(ALWYS,ALWYS2) 13SEP18

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)



OAKLAND CENTER
134.37 281.5
NORCAL APP CON
128.325 254.3
D-ATIS
113.7 115.8 118.85
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8

(ALWYS,ALWYS2) 18256
ALWAYS TWO ARRIVAL (RNAV) Transition Routes
AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect "descend via" clearance from Oakland Center.
Northern California TRACON will assign landing runway.

INYOE TRANSITION (INYOE.ALWYS2)
RUSME TRANSITION (RUSME.ALWYS2)

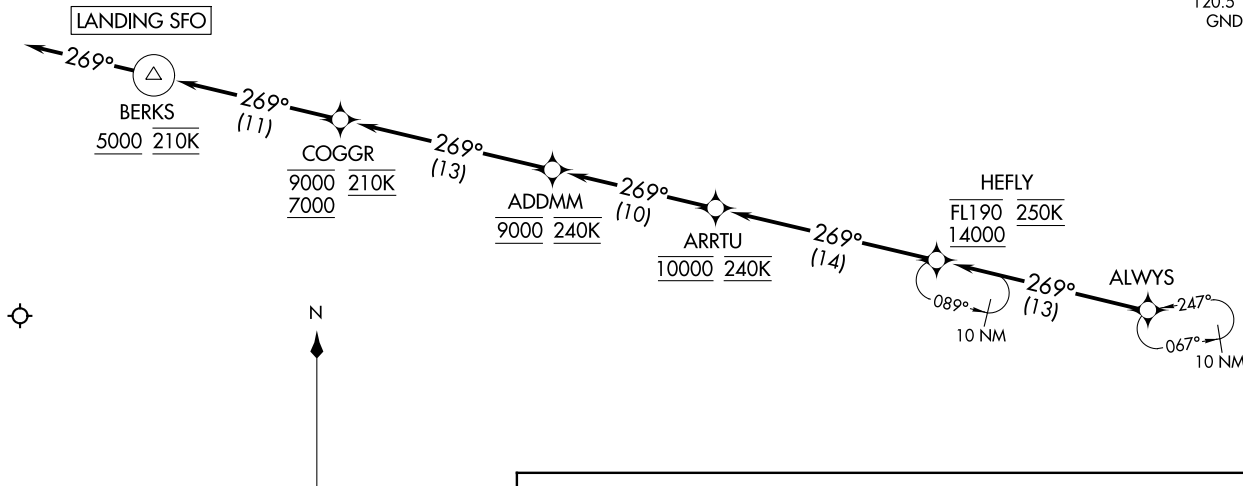
(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ALWAYS TWO ARRIVAL (RNAV) Arrival Routes
 (ALWYS,ALWYS2) 13SEP18

SAN FRANCISCO, CALIFORNIA
 SAN FRANCISCO INTL (SFO)

OAKLAND CENTER
 134.37 281.5
 NORCAL APP CON
 128.325 254.3
 D-ATIS
 113.7 115.8 118.85
 SAN FRANCISCO TOWER
 120.5 269.1
 GND CON
 121.8



(ALWYS,ALWYS2) 18236
 ALWAYS TWO ARRIVAL (RNAV) Arrival Routes
 AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
 SAN FRANCISCO, CALIFORNIA

ARRIVAL ROUTE DESCRIPTION

LANDING RUNWAYS 19L/R: From ALWAYS on track 269° to cross HEFLY between 14000 and FL190 and at 250K, then on track 269° to cross ARRTU at 10000 and at 240K, then on track 269° to cross ADDMM at 9000 and at 240K, then on track 269° to cross COGGR between 7000 and 9000 and at 210K, then on track 269° to cross BERKS at or above 5000 and at 210K, then on track 269°. Expect ILS or RNAV (GPS) approach to Rwy 19L or RADAR vectors to final approach course.

NOTE: RADAR required.
 NOTE: RNAV 1.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: Expect "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.

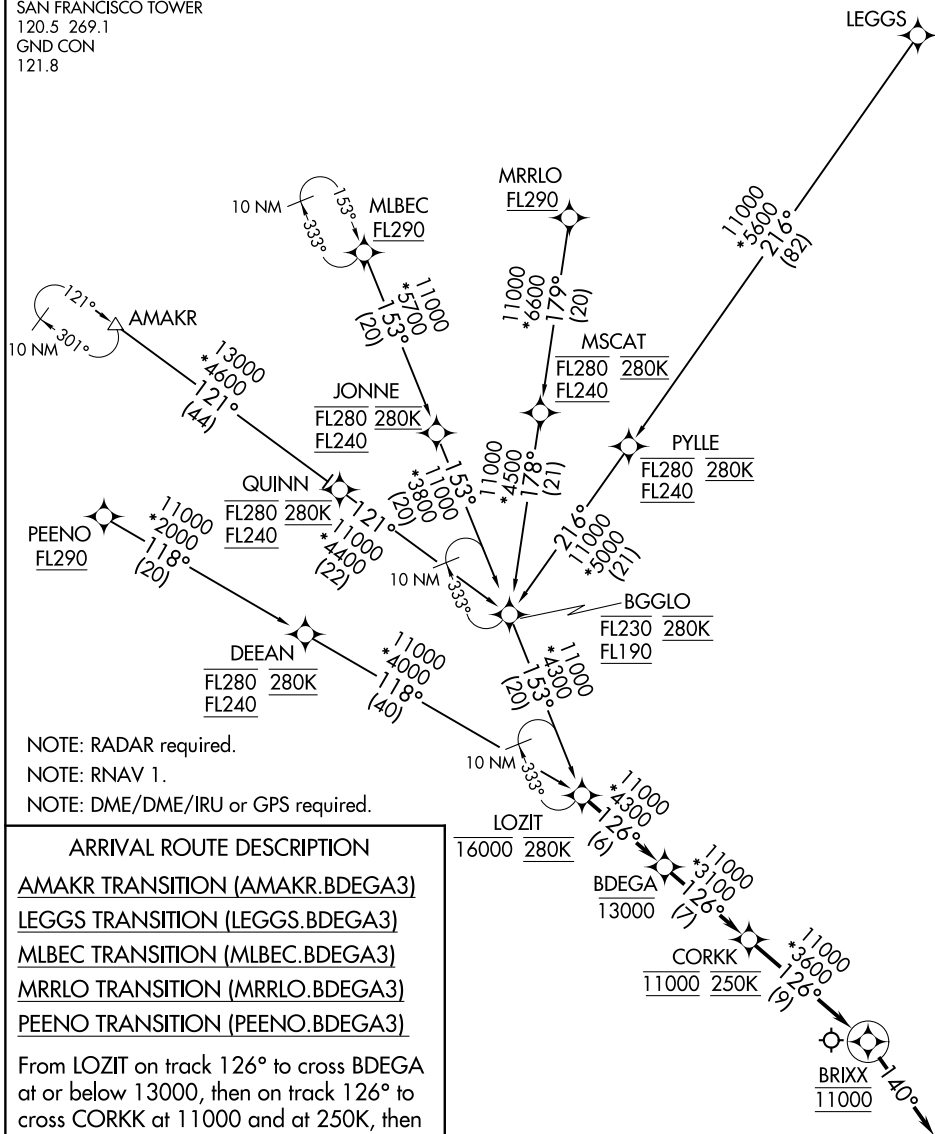
NOTE: Chart not to scale.

BDEGA THREE ARRIVAL (RNAV)

AL-375 (FAA)



OAKLAND CENTER
125.85 323.0
NORCAL APP CON
133.95 317.6
D-ATIS
113.7 115.8 118.85
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.

ARRIVAL ROUTE DESCRIPTION

- AMAKR TRANSITION (AMAKR.BDEGA3)
- LEGG'S TRANSITION (LEGG'S.BDEGA3)
- MLBEC TRANSITION (MLBEC.BDEGA3)
- MRRLO TRANSITION (MRRLO.BDEGA3)
- PEENO TRANSITION (PEENO.BDEGA3)

From LOZIT on track 126° to cross BDEGA at or below 13000, then on track 126° to cross CORKK at 11000 and at 250K, then on track 126° to BRIXX, then on track 140°. Expect RADAR vectors to final approach course.

NOTE: Chart not to scale.

BDEGA THREE ARRIVAL (RNAV)

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

(BSR.BSR3) 23334

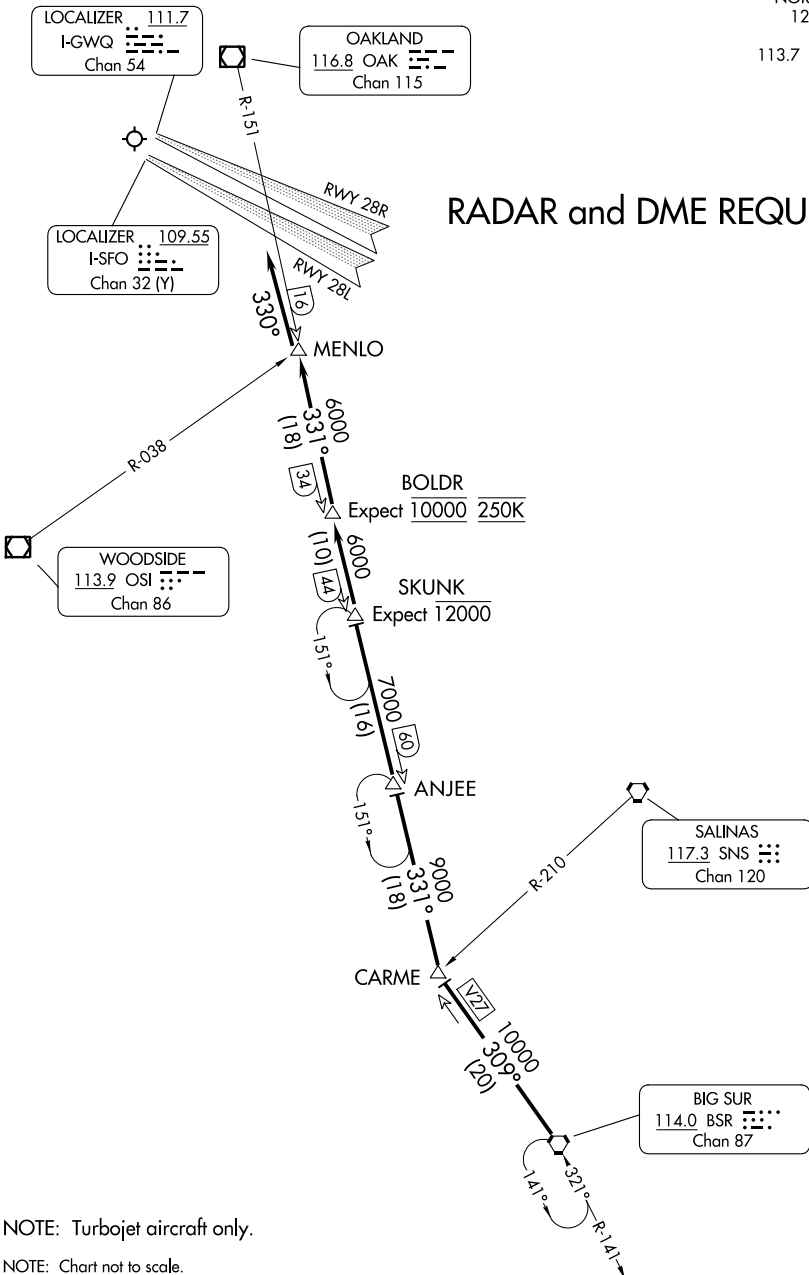
BIG SUR THREE ARRIVAL

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

OAKLAND CENTER
125.45 307.3
NORCAL APP CON
128.575 254.25
D-ATIS
113.7 115.8 118.85

RADAR and DME REQUIRED



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

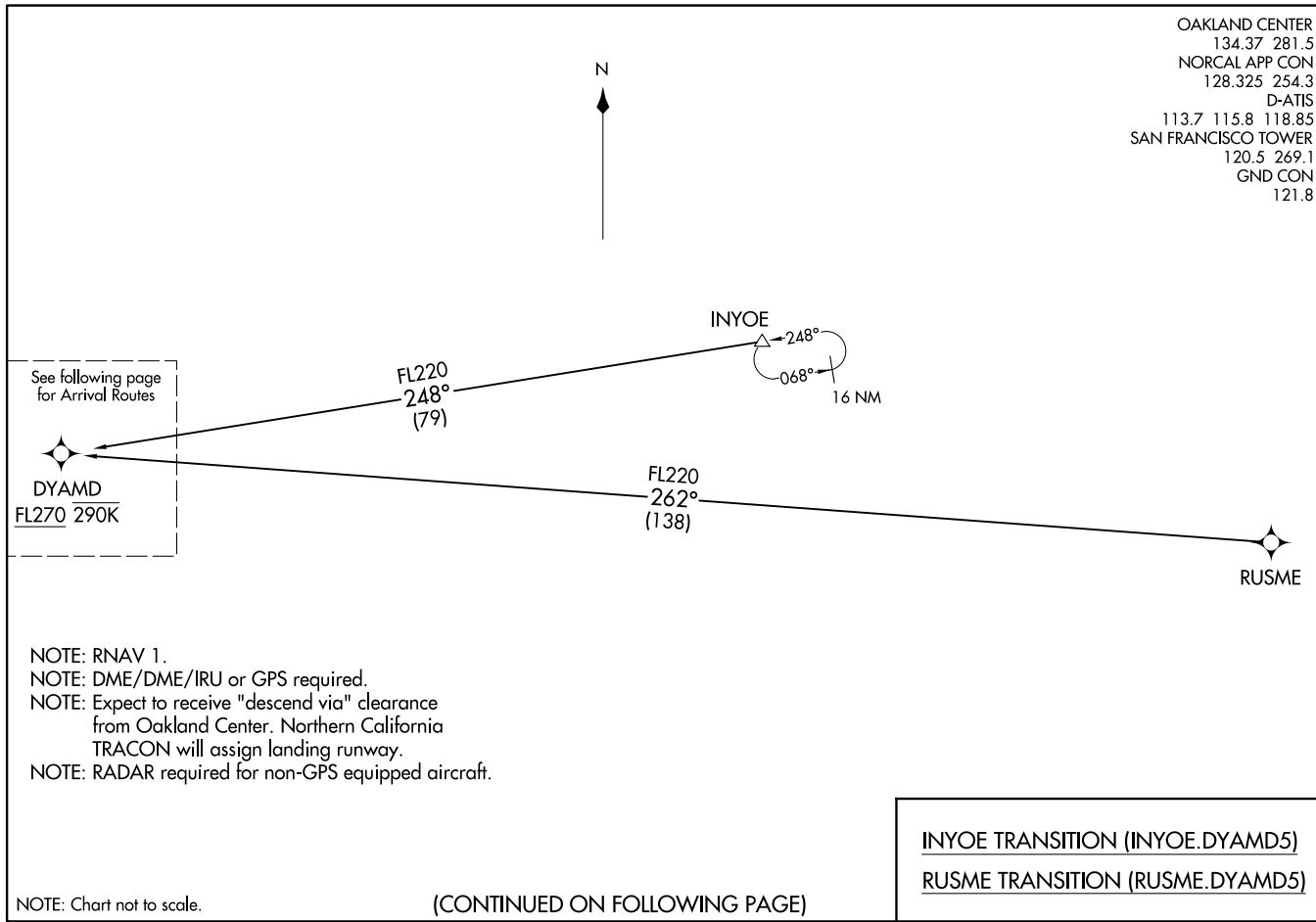
BIG SUR THREE ARRIVAL

(BSR.BSR3) 15SEP16

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

DYAMD FIVE ARRIVAL (RNAV) Transition Routes
(DYAMD.DYAMD5) 03JAN19

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)



OAKLAND CENTER 134.37 281.5
 NORCAL APP CON 128.325 254.3
 D-ATIS 113.7 115.8 118.85
 SAN FRANCISCO TOWER 120.5 269.1
 GND CON 121.8

(DYAMD.DYAMD5) 19003
DYAMD FIVE ARRIVAL (RNAV) Transition Routes AL-375 (FAI)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Expect to receive "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.
- NOTE: RADAR required for non-GPS equipped aircraft.

INYOE TRANSITION (INYOE.DYAMD5)
RUSME TRANSITION (RUSME.DYAMD5)

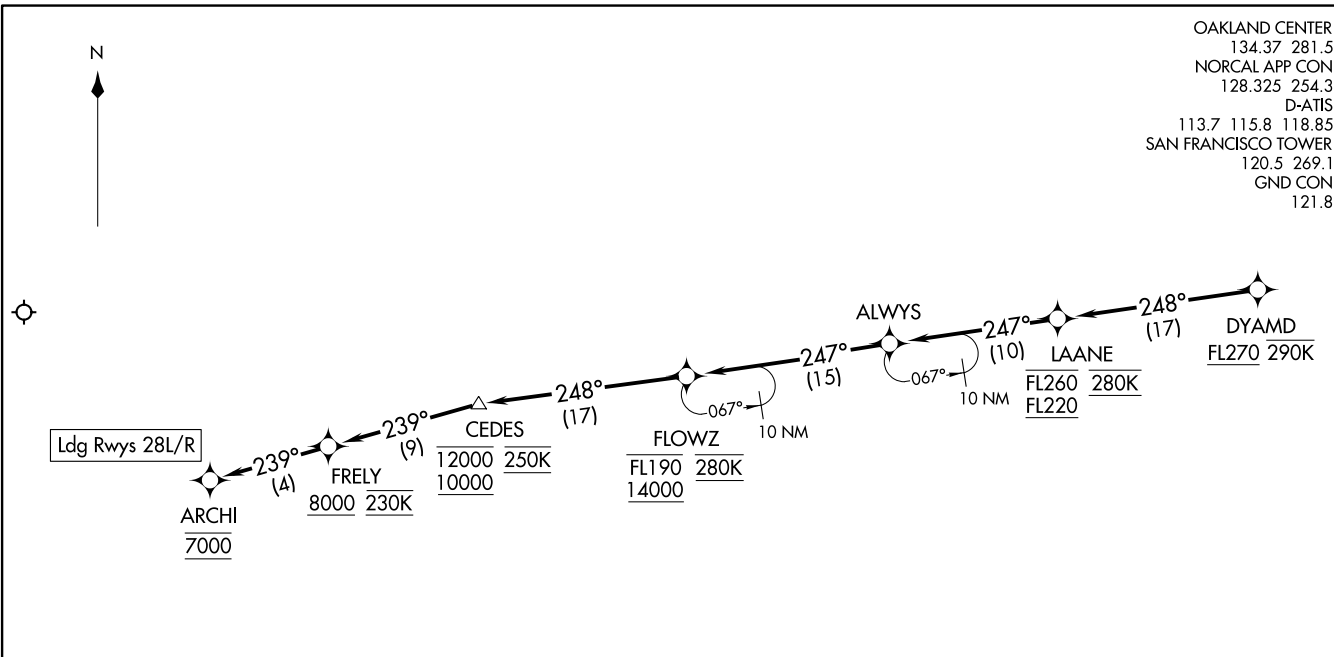
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NOTE: Chart not to scale.

DYAMD FIVE ARRIVAL (RNAV) Arrival Routes
 (DYAMD: DYAMD5) 03JAN19

(DYAMD: DYAMD5) 19003
 DYAMD FIVE ARRIVAL (RNAV) Arrival Routes
 AL-375 (FAA)

OAKLAND CENTER 134.37 281.5
 NORCAL APP CON 128.325 254.3
 D-ATIS 113.7 115.8 118.85
 SAN FRANCISCO TOWER 120.5 269.1
 GND CON 121.8



SAN FRANCISCO, CALIFORNIA
 SAN FRANCISCO INTL (SFO)

SAN FRANCISCO INTL (SFO)
 SAN FRANCISCO, CALIFORNIA

- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Expect to receive "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.
- NOTE: RADAR required for non-GPS equipped aircraft.

ARRIVAL ROUTE DESCRIPTION

From DYAMD on track 248° to cross LAANE between FL220 and FL260 and at 280K, then on track 247° to ALWAYS.

LANDING RUNWAYS 28L/R: From ALWAYS on track 247° to cross FLOWZ between 14000 and FL190 and at 280K, then on track 248° to cross CEDES between 10000 and 12000 and at 250K, then on track 239° to cross FRELY at or above 8000 and at 230K, then on track 239° to cross ARCHI at 7000. Expect assigned instrument approach procedure.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

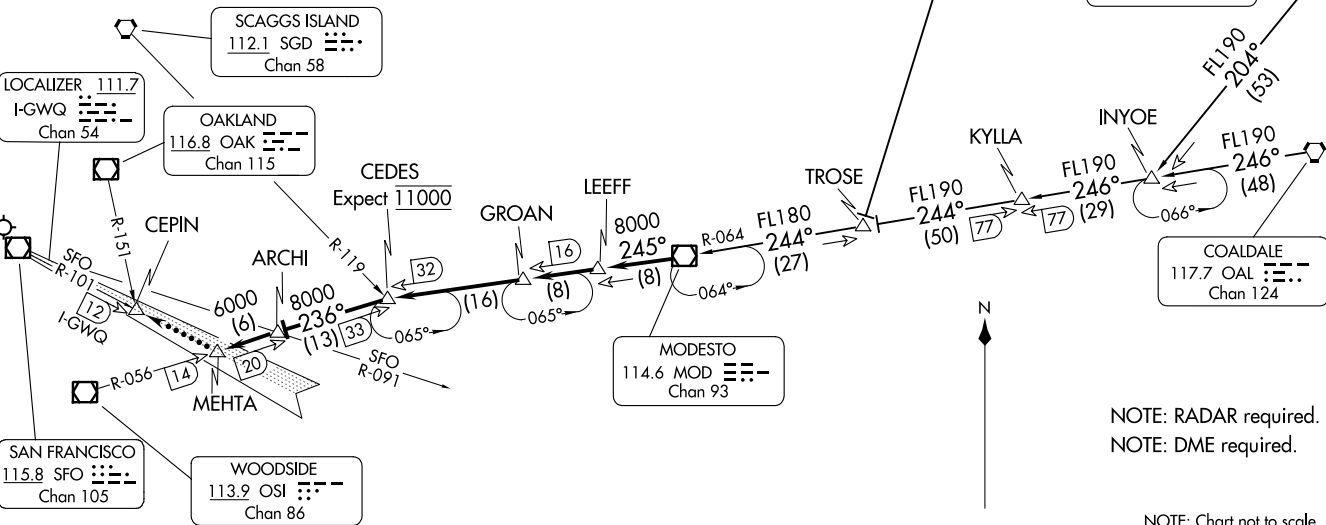
COALDALE TRANSITION (OAL.MOD9): From over OAL VORTAC on OAL R-246 and MOD R-064 to MOD VOR/DME. Thence. . . .

MINA TRANSITION (MVA.MOD9): From over MVA VORTAC on MVA R-204 and OAL R-246 and MOD R-064 to MOD VOR/DME. Thence. . . .

MUSTANG TRANSITION (FMG.MOD9): From over FMG VORTAC on FMG R-182 and MOD R-064 to MOD VOR/DME. Thence. . . .

. . . . From over MOD VOR/DME on MOD R-245 to LEEFF, then on MOD R-245 to GROAN, then on MOD R-245 to CEDES, then on OSI VOR/DME R-056 to ARCHI, then on OSI R-056 to MEHTA. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: Intercept and proceed on SFO RWY 28R localizer to CEPIN.



NOTE: RADAR required.
NOTE: DME required.

NOTE: Chart not to scale.

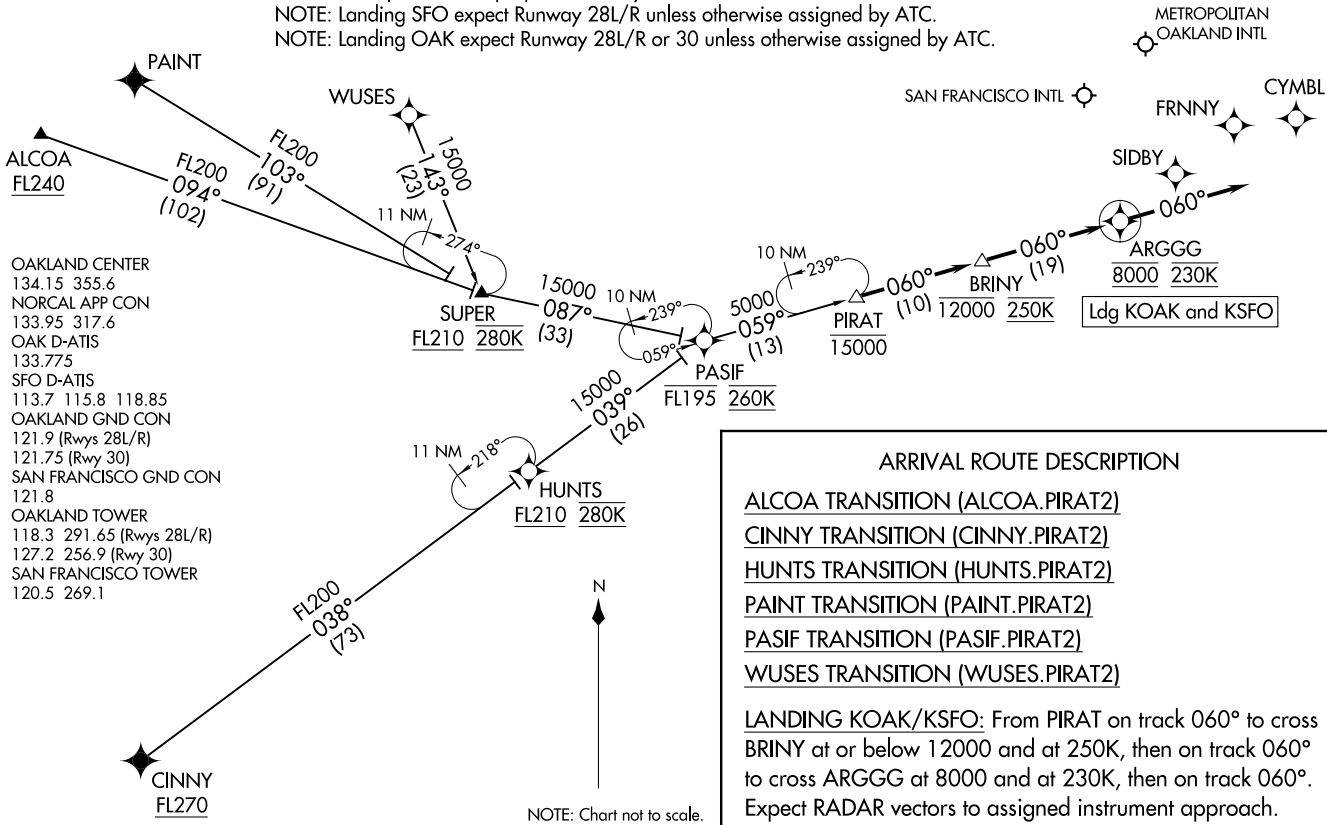
MODESTO NINE ARRIVAL
 (MOD.MOD9) 15AUG19
 SAN FRANCISCO, CALIFORNIA
 SAN FRANCISCO INTL (SFO)

(MOD.MOD9) 23334
 MODESTO NINE ARRIVAL
 AL-375 (FAA)
 SAN FRANCISCO INTL (SFO)
 SAN FRANCISCO, CALIFORNIA

NOTE: RADAR required.
 NOTE: RNAV 1.
 NOTE: GPS required.
 NOTE: Turbojet and turboprop aircraft only.
 NOTE: Landing SFO expect Runway 28L/R unless otherwise assigned by ATC.
 NOTE: Landing OAK expect Runway 28L/R or 30 unless otherwise assigned by ATC.

PIRAT TWO ARRIVAL (RNAV)
 (PIRAT.PIRAT2) 25APR19

SAN FRANCISCO, CALIFORNIA



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ALCOA TRANSITION (ALCOA.PIRAT2)
CINNY TRANSITION (CINNY.PIRAT2)
HUNTS TRANSITION (HUNTS.PIRAT2)
PAINT TRANSITION (PAINT.PIRAT2)
PASIF TRANSITION (PASIF.PIRAT2)
WUSES TRANSITION (WUSES.PIRAT2)

LANDING KOAK/KSFO: From PIRAT on track 060° to cross BRINY at or below 12000 and at 250K, then on track 060° to cross ARGGG at 8000 and at 230K, then on track 060°. Expect RADAR vectors to assigned instrument approach.

PIRAT TWO ARRIVAL (RNAV)
 (PIRAT.PIRAT2) 20198

AL-375 (FAA)

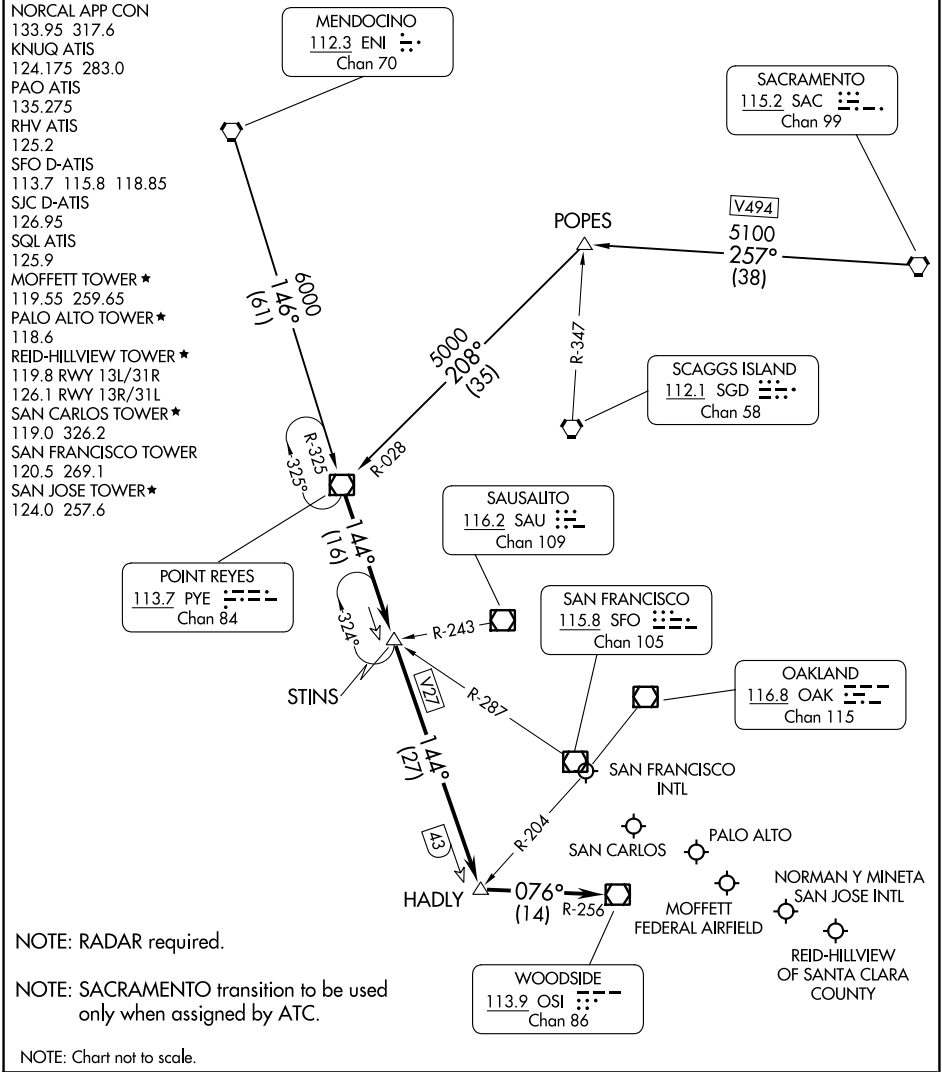
SAN FRANCISCO, CALIFORNIA

(PYE.PYE3) 23334

POINT REYES THREE ARRIVAL

AL-375 (FAA)

SAN FRANCISCO, CALIFORNIA



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

ARRIVAL ROUTE DESCRIPTION

MENDOCINO TRANSITION (ENI.PYE3): From over ENI VORTAC on ENI R-146 and PYE R-325 to PYE VOR/DME. Thence. . .

SACRAMENTO TRANSITION (SAC.PYE3): From over SAC VORTAC on SAC R-257 and PYE R-028 to PYE VOR/DME. Thence. . .

. . . From over PYE VOR/DME on PYE R-144 to HADLY, then on OSI R-256 to OSI VOR/DME. Expect RADAR vectors to final approach course.

POINT REYES THREE ARRIVAL

(PYE.PYE3) 22JUN17

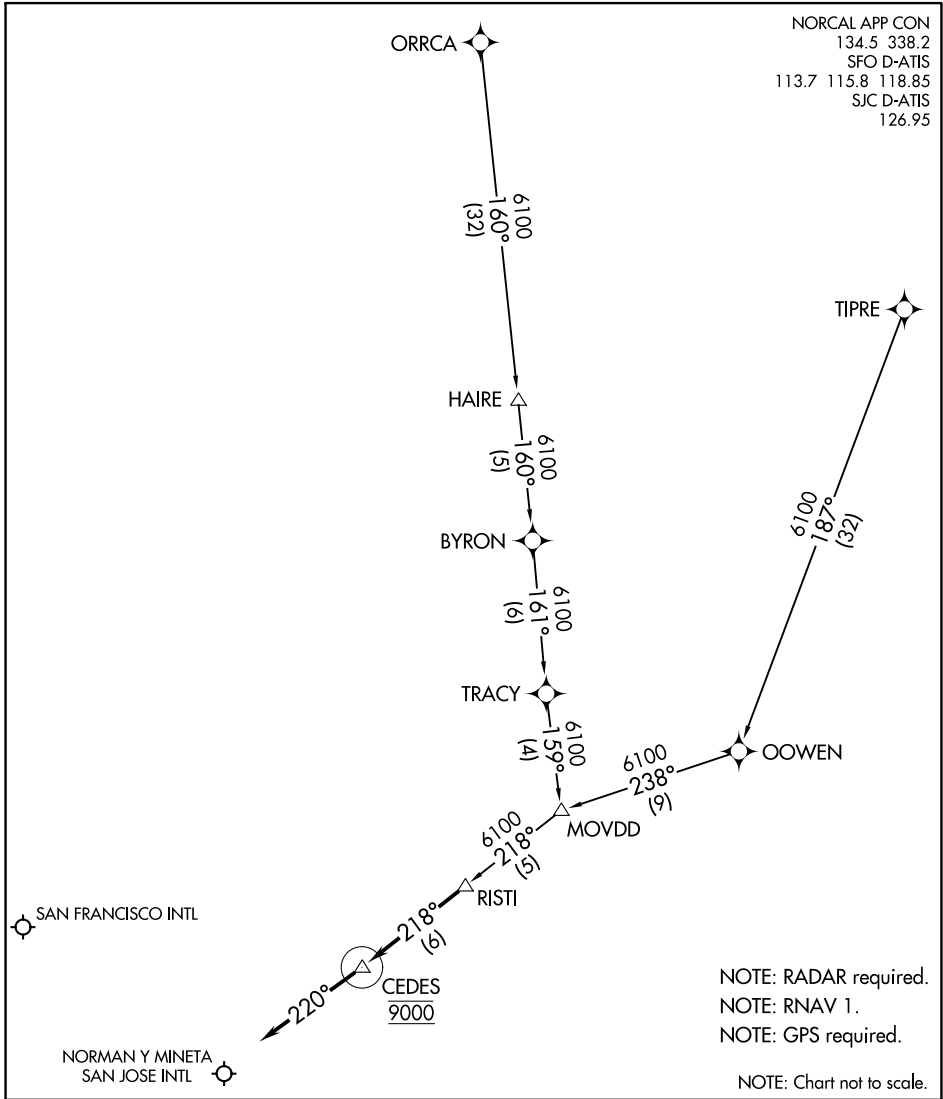
SAN FRANCISCO, CALIFORNIA

RISTI ONE ARRIVAL (RNAV)

AL-375 (FAA)

SAN FRANCISCO, CALIFORNIA

NORCAL APP CON
 134.5 338.2
 SFO D-ATIS
 113.7 115.8 118.85
 SJC D-ATIS
 126.95



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

NOTE: RADAR required.
 NOTE: RNAV 1.
 NOTE: GPS required.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ORRCA TRANSITION (ORRCA.RISTI1)

TIPRE TRANSITION (TIPRE.RISTI1)

LANDING KSFO/KSJC: From RISTI on track 218° to cross CEDES at 9000, then on heading 220° or as assigned by ATC. Expect RADAR vectors to final approach course.

RISTI ONE ARRIVAL (RNAV)

SAN FRANCISCO, CALIFORNIA

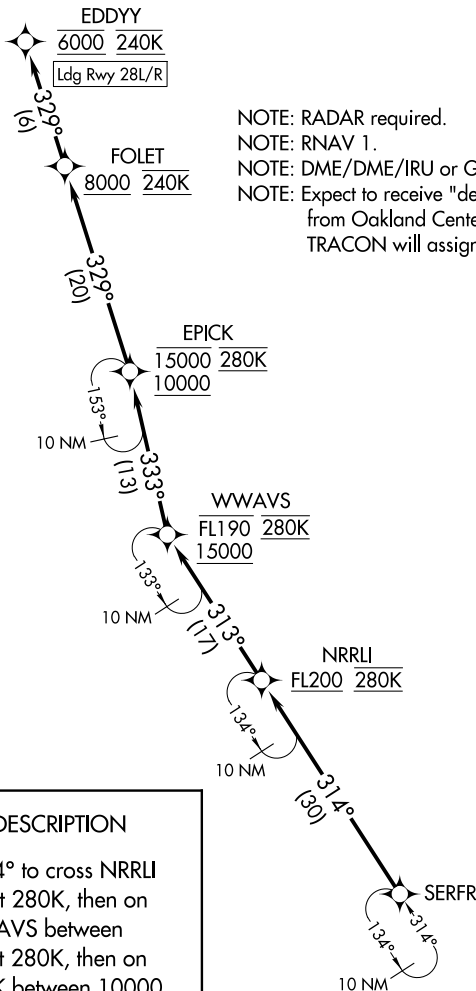
(SERFR.SERFR4) 19339

SERFR FOUR ARRIVAL (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

OAKLAND CENTER
134.55 290.5
NORCAL APP CON
128.575 254.25
D-ATIS
113.7 115.8 118.85
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect to receive "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.

ARRIVAL ROUTE DESCRIPTION

From SERFR on track 314° to cross NRRLI at or above FL200 and at 280K, then on track 313° to cross WWAVS between 15000 and FL190 and at 280K, then on track 333° to cross EPICK between 10000 and 15000 and at 280K, then on track 329° to cross FOLET at or above 8000 and at 240K, then on track 329° to cross EDDYY at 6000 and at 240K. Expect assigned instrument approach (Rwy 28L/R).

STOKD

MAKRS

NOTE: Chart not to scale.

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

SERFR FOUR ARRIVAL (RNAV)

(SERFR.SERFR4) 05DEC19

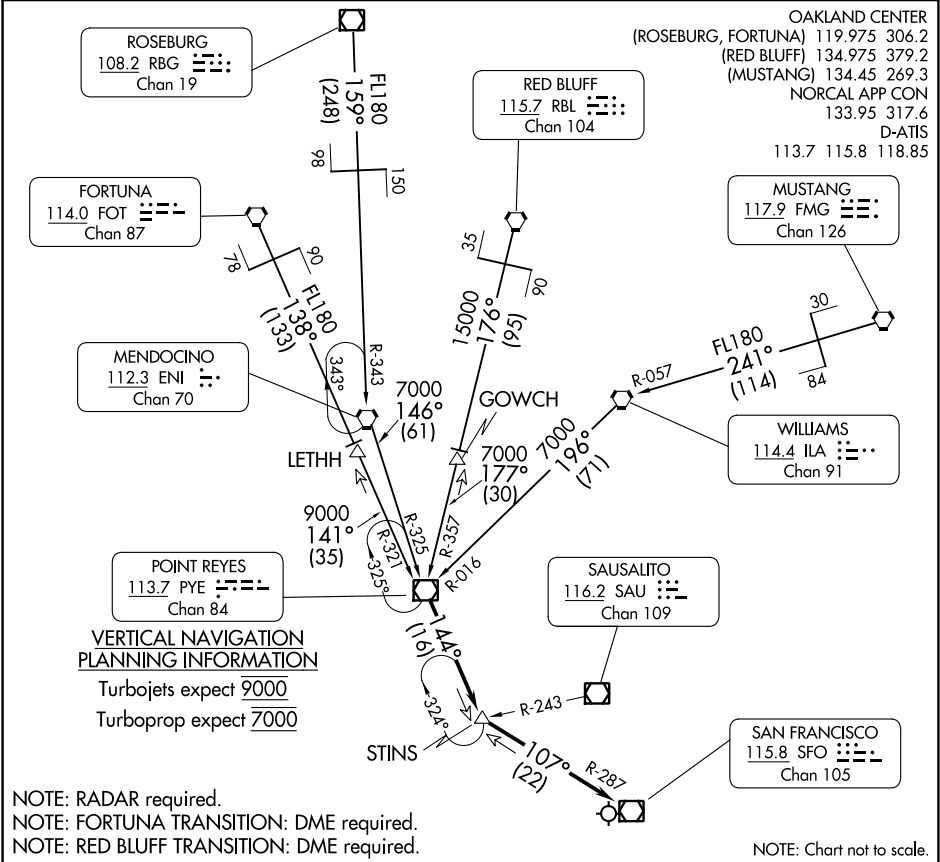
SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

STINS FOUR ARRIVAL

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

OAKLAND CENTER
 (ROSEBURG, FORTUNA) 119.975 306.2
 (RED BLUFF) 134.975 379.2
 (MUSTANG) 134.45 269.3
 NORCAL APP CON
 133.95 317.6
 D-ATIS
 113.7 115.8 118.85



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

ARRIVAL ROUTE DESCRIPTION

FORTUNA TRANSITION (FOT.STINS4): From over FOT VORTAC on FOT R-138 and PYE R-321 to LETHH, then on PYE R-321 to PYE VOR/DME. Thence. . .

MENDOCINO TRANSITION (ENI.STINS4): From over ENI VORTAC on ENI R-146 and PYE R-325 to PYE VOR/DME. Thence. . .

MUSTANG TRANSITION (FMG.STINS4): From over FMG VORTAC on FMG R-241 and ILA R-057 to ILA VORTAC, then on ILA R-196 and PYE R-016 to PYE VOR/DME. Thence. . .

RED BLUFF TRANSITION (RBL.STINS4): From over RBL VORTAC on RBL R-176 and PYE R-357 to GOWCH, then on PYE R-357 to PYE VOR/DME. Thence. . .

ROSEBURG TRANSITION (RBG.STINS4): From over RBG VOR/DME on RBG R-159 and ENI R-343 to ENI VORTAC, then on ENI R-146 and PYE R-325 to PYE VOR/DME. Thence. . .

. . . From over PYE VOR/DME on PYE R-144 to STINS, then on SFO R-287 to SFO VOR/DME. Expect RADAR vectors to final approach course.

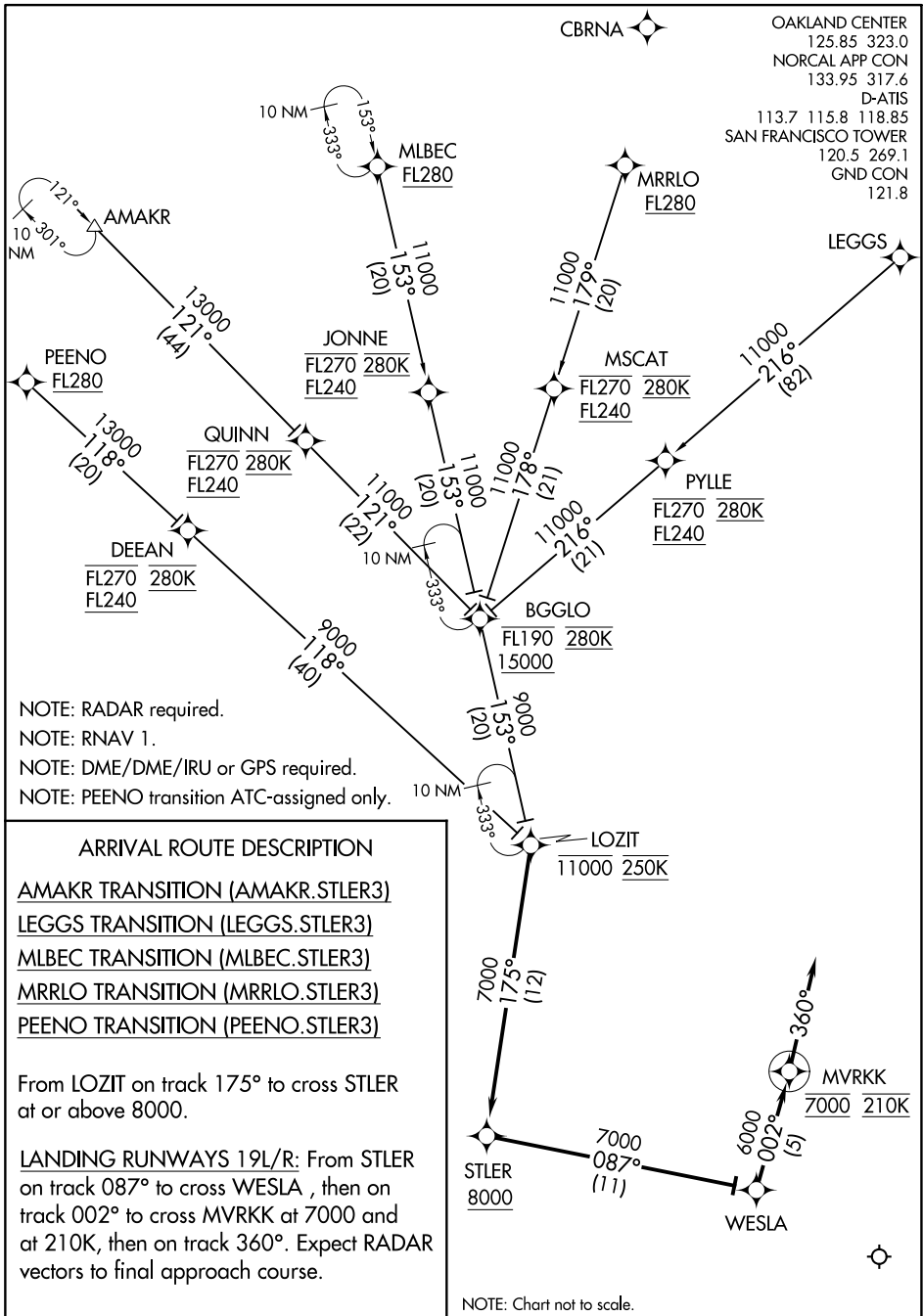
STINS FOUR ARRIVAL

(LOZIT.STLER3) 18256

STLER THREE ARRIVAL (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SF'O)
SAN FRANCISCO, CALIFORNIA



SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: PEENO transition ATC-assigned only.

ARRIVAL ROUTE DESCRIPTION

- AMAKR TRANSITION (AMAKR.STLER3)
- LEGGGS TRANSITION (LEGGGS.STLER3)
- MLBEC TRANSITION (MLBEC.STLER3)
- MRRLO TRANSITION (MRRLO.STLER3)
- PEENO TRANSITION (PEENO.STLER3)

From LOZIT on track 175° to cross STLER at or above 8000.

LANDING RUNWAYS 19L/R: From STLER on track 087° to cross WESLA, then on track 002° to cross MVRKK at 7000 and at 210K, then on track 360°. Expect RADAR vectors to final approach course.

NOTE: Chart not to scale.

STLER THREE ARRIVAL (RNAV)

(LOZIT.STLER3) 13SEP18

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SF'O)

(SERFR.WWAVS1) 17173

WWAVS ONE ARRIVAL (RNAV)

AL-375 (FAA)

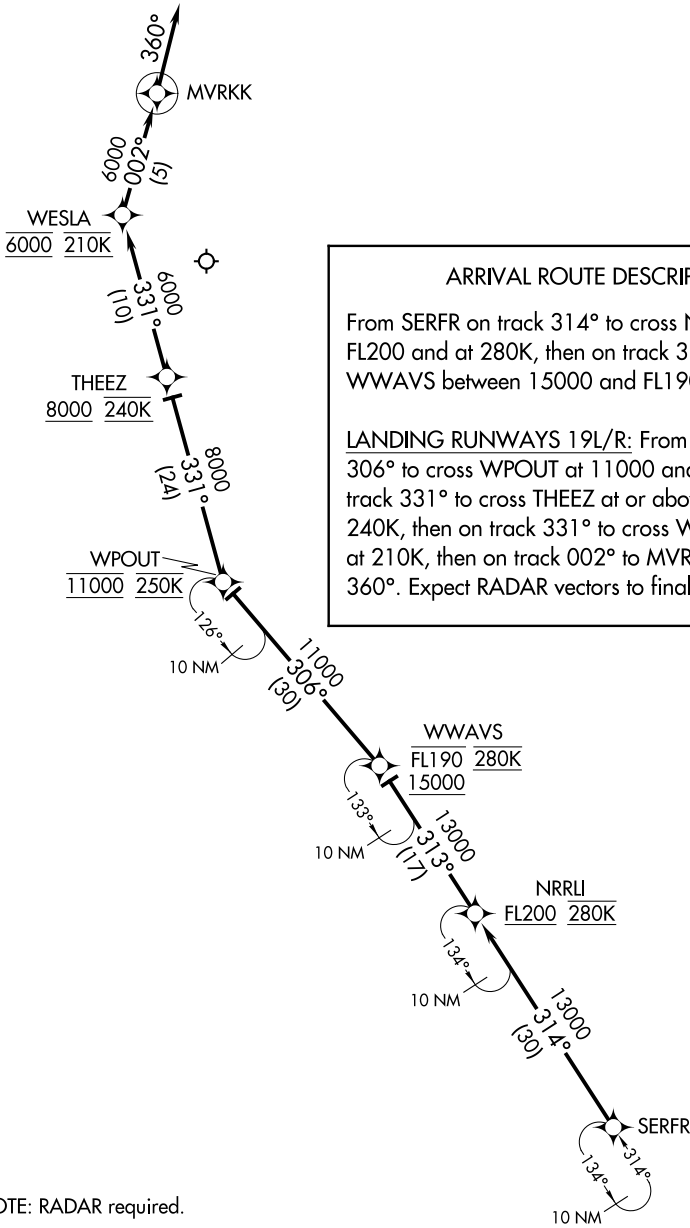
SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

D-ATIS
113.7 115.8 118.85
OAKLAND CENTER
134.55 290.5
NORCAL APP CON
128.575 254.25
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8

ARRIVAL ROUTE DESCRIPTION

From SERFR on track 314° to cross NRRLI at or above FL200 and at 280K, then on track 313° to cross WWAVS between 15000 and FL190 and at 280K.

LANDING RUNWAYS 19L/R: From WWAVS on track 306° to cross WPOUT at 11000 and at 250K, then on track 331° to cross THEEZ at or above 8000 and at 240K, then on track 331° to cross WESLA at 6000 and at 210K, then on track 002° to MVRKK, then on track 360°. Expect RADAR vectors to final approach course.



ARRIVAL ROUTE DESCRIPTION

From SERFR on track 314° to cross NRRLI at or above FL200 and at 280K, then on track 313° to cross WWAVS between 15000 and FL190 and at 280K.

LANDING RUNWAYS 19L/R: From WWAVS on track 306° to cross WPOUT at 11000 and at 250K, then on track 331° to cross THEEZ at or above 8000 and at 240K, then on track 331° to cross WESLA at 6000 and at 210K, then on track 002° to MVRKK, then on track 360°. Expect RADAR vectors to final approach course.

SW-2, 22 FEB 2024 to 21 MAR 2024

SW-2, 22 FEB 2024 to 21 MAR 2024

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: Chart not to scale.

MAKRS \triangle



WWAVS ONE ARRIVAL (RNAV)

(SERFR.WWAVS1) 10DEC15

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

ARRIVAL ROUTE DESCRIPTION

From YOSEM on track 248° to SNORA, then on track 248° to cross ZOMER at/above FL270 and at 280K.

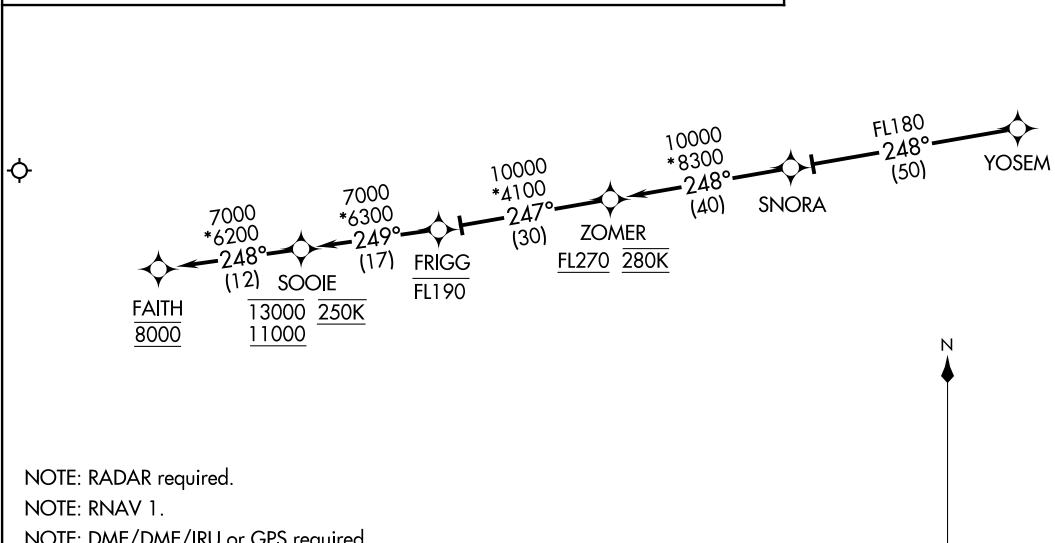
LANDING RUNWAYS 28L/R: From ZOMER on track 247° to cross FRIGG at/below FL190, then on track 249° to cross SOOIE between 11000 and 13000 and at 250K, then on track 248° to cross FAITH at 8000. Expect assigned instrument approach procedure, or expect RADAR vectors to final.

OAKLAND CENTER
134.375 281.5
NORCAL APP CON
128.325 254.3
D-ATIS
113.7 115.8 118.85
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8

(YOSEM, YOSEM3) 17173
YOSEM THREE ARRIVAL (RNAV)

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: YOSEM3 STAR ATC assigned only.
- NOTE: Chart not to scale.

YOSEM THREE ARRIVAL (RNAV)
(YOSEM, YOSEM3) 30APR15

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)