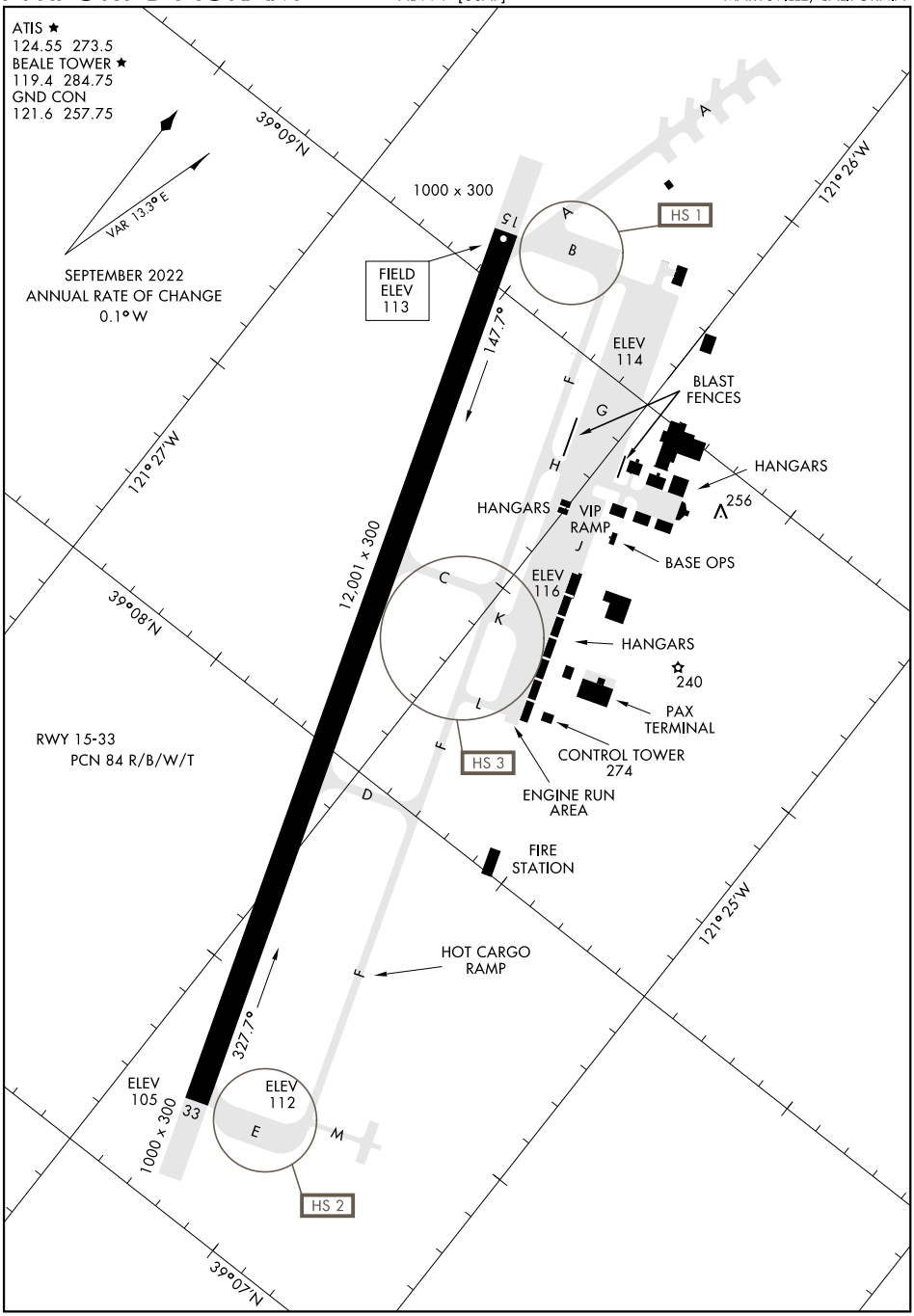
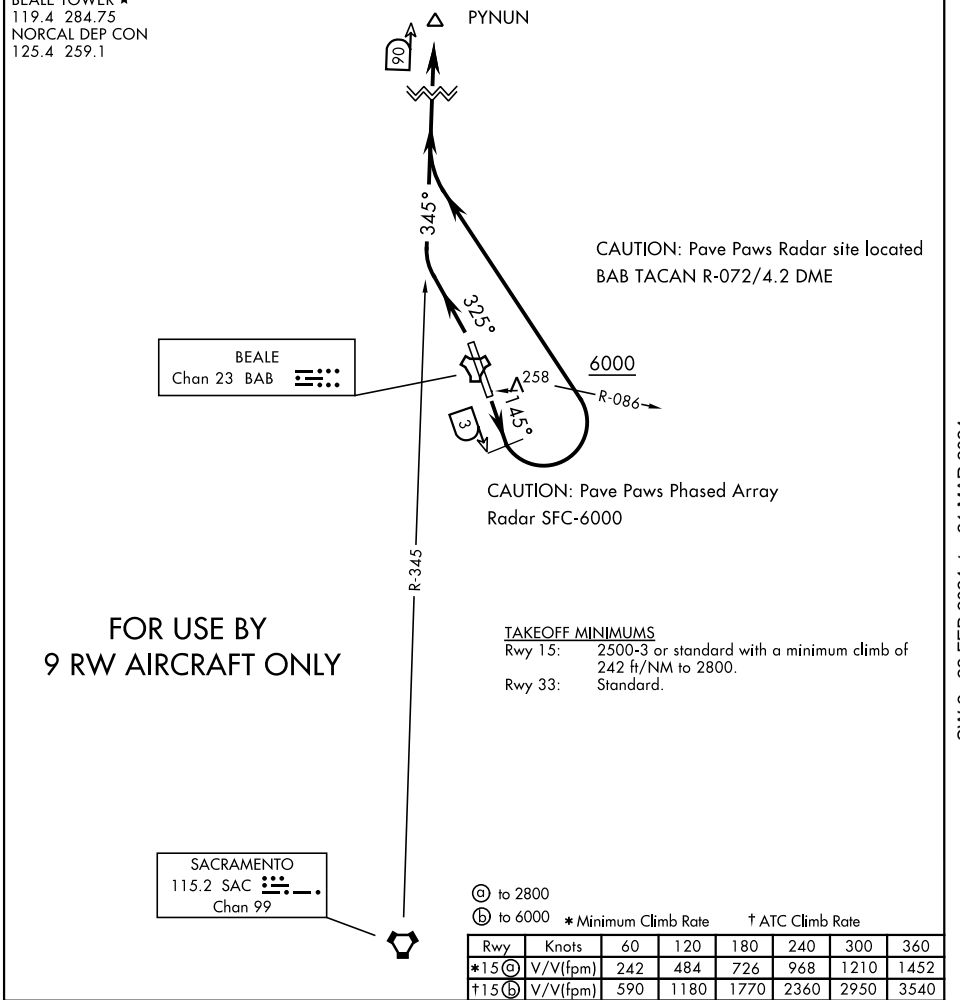

ATIS ★
124.55 273.5
BEALE TOWER ★
119.4 284.75
GND CON
121.6 257.75
VAR 13.3°E
SEPTEMBER 2022
ANNUAL RATE OF CHANGE
0.1° W
39°09'N
39°08'N
39°07'N
121°27'W
121°26'W
121°25'W
1000 x 300
15
FIELD
ELEV
113
147.7°
12,001 x 300
HS 1
HS 2
HS 3
ELEV
114
BLAST
FENCES
HANGARS
256
HANGARS
VIP
RAMP
BASE OPS
ELEV
116
HANGARS
240
PAX
TERMINAL
CONTROL TOWER
274
ENGINE RUN
AREA
FIRE
STATION
HOT CARGO
RAMP
RWY 15-33
PCN 84 R/B/W/T
327.7°
ELEV
105
33
1000 x 300
ELEV
112

# PYNUN-SEVEN DEPARTURE (PYNUN7 • PYNUN)

[USAF]

6768

ATIS ★
124.55 273.5
GND CON
121.6 257.75
BEALE TOWER ★
119.4 284.75
NORCAL DEP CON
125.4 259.1




TAKEOFF MINIMUMS
Rwy 15: 2500-3 or standard with a minimum climb of 242 ft/NM to 2800.
Rwy 33: Standard.

ⓐ to 2800
ⓑ to 6000

∗ Minimum Climb Rate † ATC Climb Rate

| Rwy | Knots | 60 | 120 | 180 | 240 | 300 | 360 |
|---|---|---|---|---|---|---|---|
| ∗15ⓐ | V/V(fpm) | 242 | 484 | 726 | 968 | 1210 | 1452 |
| †15ⓑ | V/V(fpm) | 590 | 1180 | 1770 | 2360 | 2950 | 3540 |

## DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Fly heading 145° until BAB TACAN 3 DME, turn left heading 300° to intercept SAC VORTAC R-345 to PYNUN. Cross BAB R-086 at or above 6000. Then via assigned route.

TAKEOFF RWY 33: Fly heading 325° intercept SAC VORTAC R-345 to PYNUN. Then via assigned route.


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)





22 FEB 2024 to 21 MAR 2024

## HOT SPOTS

## (CONTINUED)

| CITY/AIRPORT | HOT SPOT | DESCRIPTION* |
|---|---|---|
| SAN FRANCISCO, CA | | |
| SAN FRANCISCO INTL (SFO) | HS 1 | Complex int Twy B and Twy F. |
| | HS 2 | Rwy 01L-19R, Twy C and Twy E. |
| | HS 3 | 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 | Numerous inbounds and outbounds at twy intersections Twy D, Twy Z, and Twy Y. |
| | HS 2 | 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 | Twy A, Twy A5, Twy Z complex int in close proximity to Rwy 14-32. |
| | HS 2 | South run-up area not visible from the twr. |
| | HS 3 | North run-up area east of Twy A and Twy H int in close proximity of Rwy 20 Apch Hold. |
| | HS 4 | Wrong rwy departure risk. |
| STOCKTON, CA | | |
| STOCKTON METRO (SCK) | HS 1 | Area not visible from control twr. |
| | HS 2 | 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.





22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA

# HI-ILS or LOC Z RWY 15

BEALE AFB (KBAB)

| LOC I-BAB | APCH CRS | Rwy ldg | 12,001 |
|---|---|---|---|
| 109.5 | 145° | TDZE | 113 |
| | | Arpt Elev | 113 |

- (USAF)

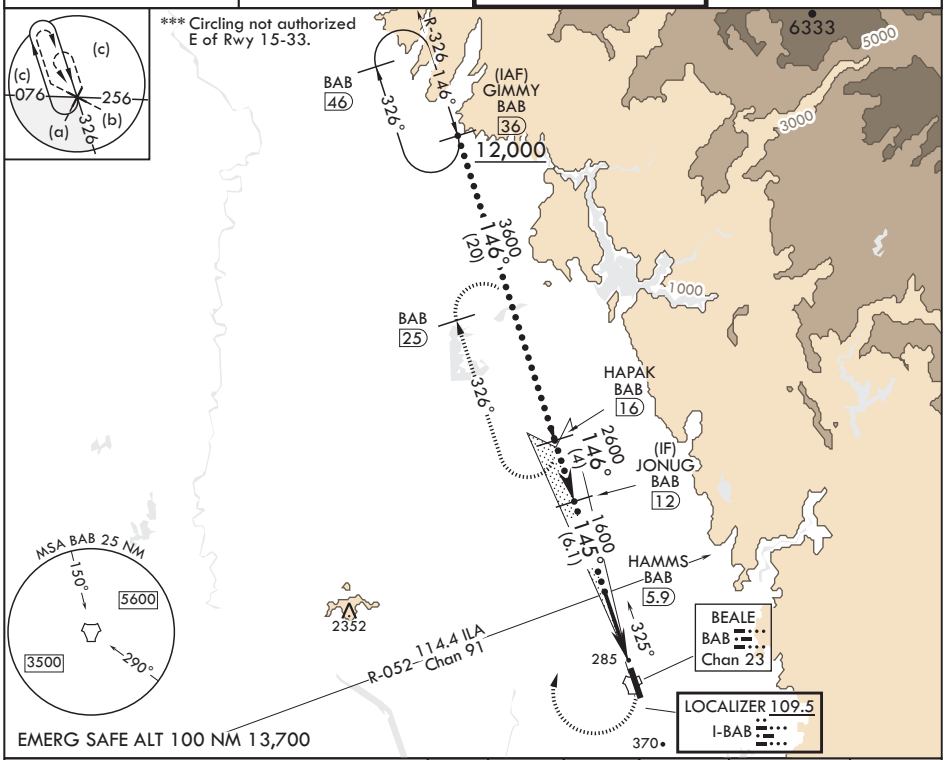
RADAR or DME required

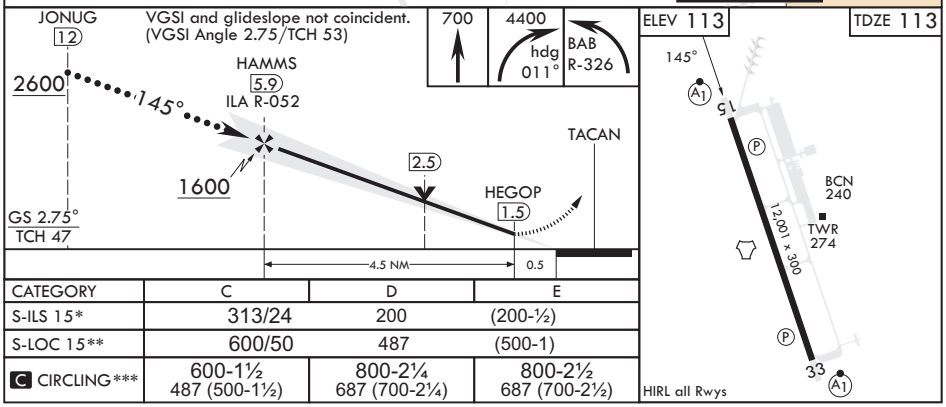
T * When ALS inop, increase CAT CDE RVR to 40 and vis to 3/4 mile.
** When ALS inop, increase CAT CDE vis to 1 3/8 miles.

ALSF-1

MISSED APPROACH: Climb to to 700 on heading 145°, then climbing right turn to 4400 heading 011° to intercept BAB R-326 to HAPAK and hold, continue climb in hold to 4400.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | C | D | E |
|---|---|---|---|
| S-ILS 15* | 313/24 | 200 | (200-½) |
| S-LOC 15** | 600/50 | 487 | (500-1) |
| C CIRCLING*** | 600-1½<br>487 (500-1½) | 800-2¼<br>687 (700-2¼) | 800-2½<br>687 (700-2½) |

MARYSVILLE, CALIFORNIA

39°08'N - 121°26'W

BEALE AFB (KBAB)

Amdt 6 25JAN24

HI-ILS or LOC Z RWY 15



SW-2, 22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA

# HI-ILS or LOC Z RWY 33

BEALE AFB (KBAB)

| LOC I-MIZ | APCH CRS | Rwy ldg | 12,001 |
|---|---|---|---|
| 109.5 | 325° | TDZE | 105 |
| | | Arpt Elev | 113 |

- (USAF)

RADAR or DME required.

T * When ALS inop, increase CAT CDE RVR to 40 and vis to 3/4 mile.
** When ALS inop, increase CAT CDE RVR to 60 vis to 1 1/8 miles.

ALSF-1 A1

MISSED APPROACH: Climb to 3600 intercept BAB R-326 to HAPAK and hold.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |

*** Circling not authorized E of Rwy 15-33.

BAB 25 — 326° — 146° — R-326 — HAPAK BAB 16 — 1033 — 1062 — 298 — 253 — 370 — 262 — 1000 — 3000 — 4551 — 4440 — 2352 — 2178

LOCALIZER 109.5 I-MIZ

BEALE BAB Chan 23

(IAF) ZALNO BAB 15 8000 — R-090

RUENZ BAB 3.7 — ZEGSO BAB 5.8 — 325° (9.2) — BAB 15 Arc — LR-136 — R-145 — 145° — (IF) ZUTUK BAB 15

MSA BAB 25 NM — 150° — 290° — 5600 — 3500

EMERG SAFE ALT 100 NM 13,700

3600 BAB R-326 — HAPAK BAB 16

TACAN — ZAPUX 1.5 — 2.1 — RUENZ 3.7 — ZEGSO 5.8 — 325° — ZUTUK R-145 15 — ZALNO R-090 15 — 8000 — 3200 — 1000 — 1700 — GS 3.00° TCH 50 — 15 Arc

0.5 — 2.2 NM — 2.1 NM

ELEV 113 — TDZE 105

A1 — 15 — P — BCN 240 — 12,001 x 300 — TWR 274 — P — 33 A1 — 325°

HIRL all Rwys

| CATEGORY | C | D | E |
|---|---|---|---|
| S-ILS 33* | 305/24 | 200 | (200-½) |
| S-LOC 33** | 520/40 | 415 | (500-¾) |
| C CIRCLING*** | 600-1½ 487 (500-1½) | 800-2¼ 687 (700-2¼) | 800-2½ 687 (700-2½) |

MARYSVILLE, CALIFORNIA — 39°08'N - 121°26'W — BEALE AFB (KBAB)

Amdt 6 25JAN24

HI-ILS or LOC Z RWY 33



SW-2, 22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA

# HI-TACAN Z RWY 15

BEALE AFB (KBAB)

| TACAN BAB Chan 23 | APCH CRS 153° | Rwy ldg 12,001<br>TDZE 113<br>Arpt Elev 113 |
|---|---|---|

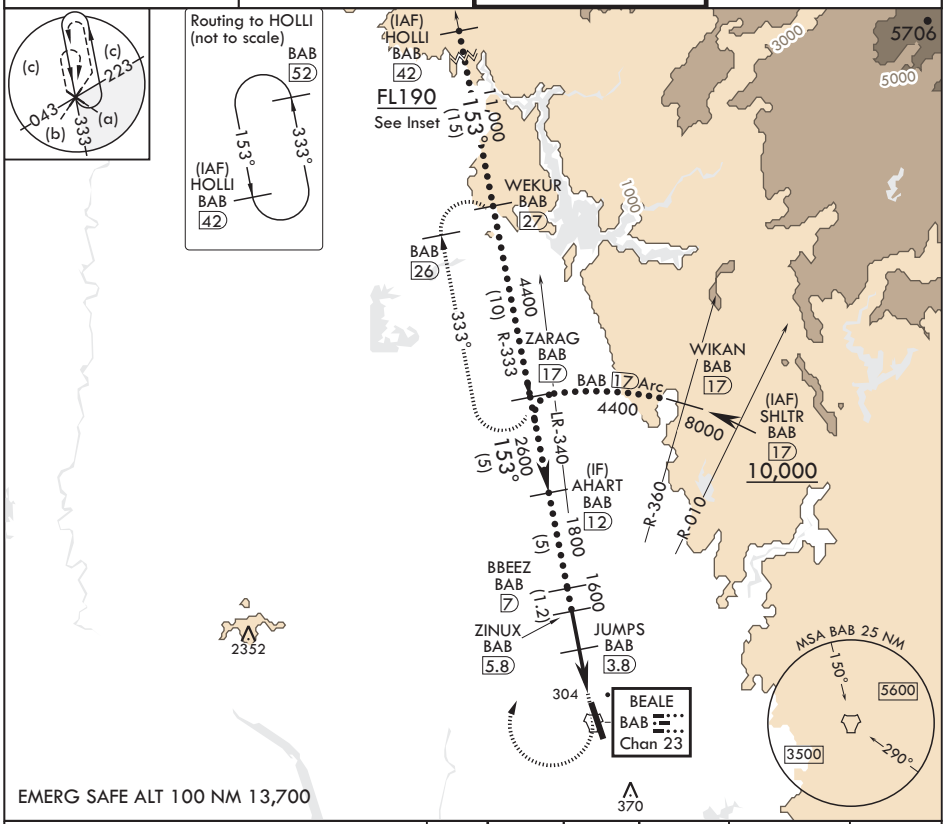
- (USAF)

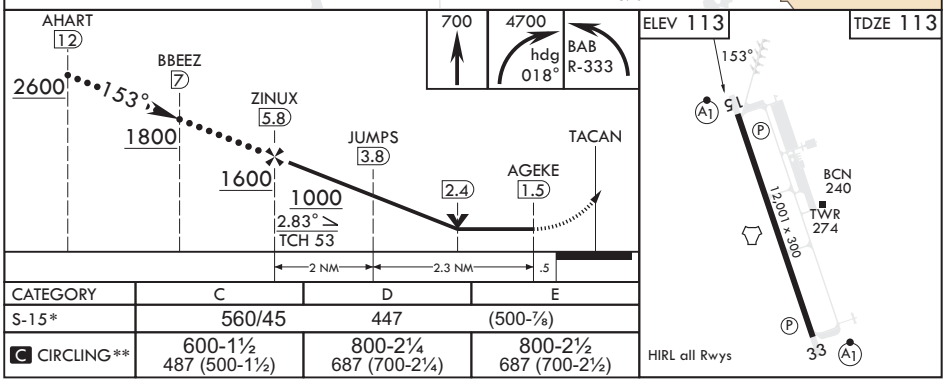
* When ALS inop, increase vis to 1 3/8 miles.
** Circling not authorized E of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 700 on heading 153°, then climbing right turn to 4700 heading 018° to intercept BAB R-333 to ZARAG and hold, continue climb in hold to 4700.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | C | D | E |
|---|---|---|---|
| S-15* | 560/45 | 447 | (500-⅞) |
| C CIRCLING** | 600-1½<br>487 (500-1½) | 800-2¼<br>687 (700-2¼) | 800-2½<br>687 (700-2½) |

MARYSVILLE, CALIFORNIA

# HI-TACAN Z RWY 33

BEALE AFB (KBAB)

| TACAN BAB Chan 23 | APCH CRS 317° | Rwy ldg 12,001<br>TDZE 105<br>Arpt Elev 113 |
|---|---|---|

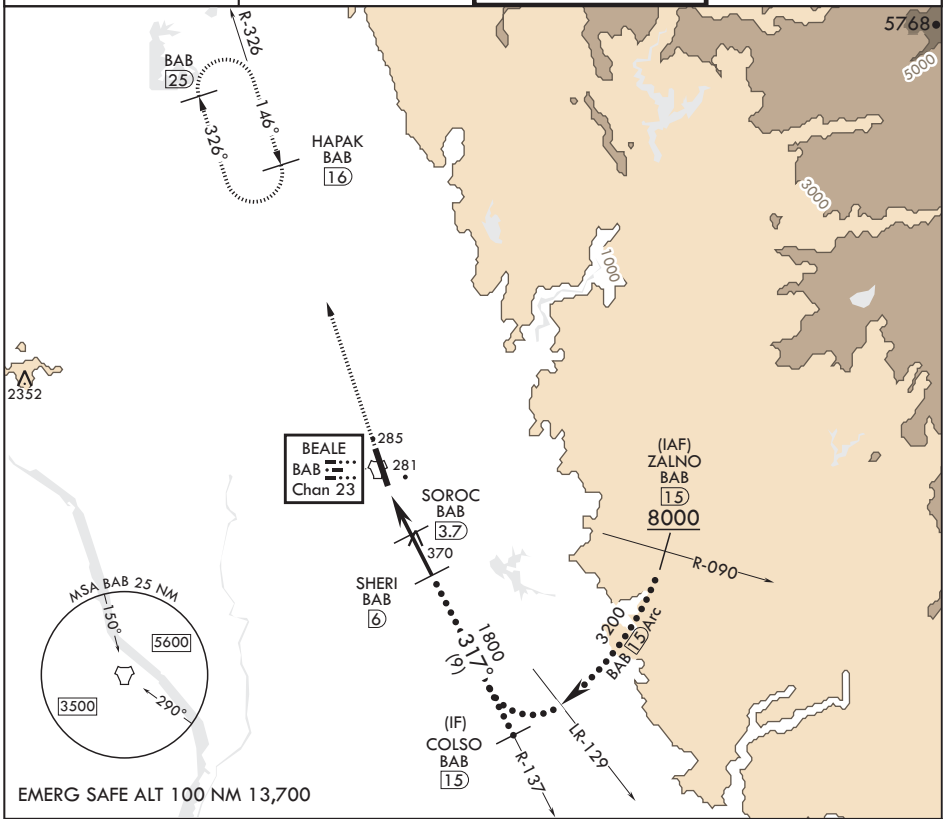
- (USAF)

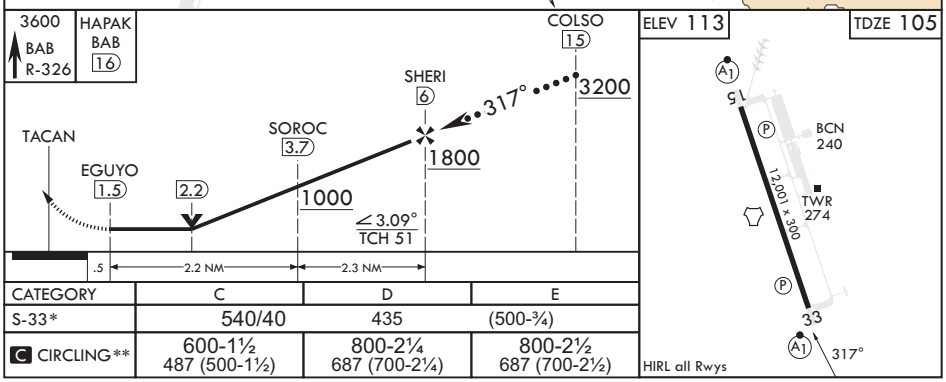
T * When ALS inop, increase CAT CDE vis to 1 1/4 miles.
** Circling not authorized NE of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 3600, intercept BAB TACAN R-326 to HAPAK and hold.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | C | D | E |
|---|---|---|---|
| S-33* | 540/40 | 435 | (500-¾) |
| C CIRCLING** | 600-1½<br>487 (500-1½) | 800-2¼<br>687 (700-2¼) | 800-2½<br>687 (700-2½) |




SW-2, 22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA

# ILS or LOC Y RWY 15

BEALE AFB (KBAB)

| LOC I-BAB | APCH CRS | Rwy ldg | 12,001 |
|---|---|---|---|
| 109.5 | 145° | TDZE | 113 |
| | | Arpt Elev | 113 |

- (USAF)

RADAR or DME required.

T * When ALS inop, increase RVR to 40 and vis to 3/4 mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 3/8 miles.

ALSF-1

MISSED APPROACH: Climb to 700 on heading 145°, then climbing right turn to 4400 heading 011° to intercept BAB R-326 to HAPAK and hold, continue climb-in-hold to 4400.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |

*** Circling not authorized E of Rwy 15-33.

4873
3000
1000
R-326
146°
326°
BAB 25
(IAF) HAPAK BAB 16
3600
2600
(4)
146°
(IF) JONUG BAB 12
1600
(6.1)
145°
HAMMS BAB 5.9
R-052
325°
284
2352
WILLIAMS 114.4 ILA Chan 91
BEALE BAB Chan 23
370
LOCALIZER 109.5 I-BAB
MSA BAB 25 NM
150°
5600
3500
290°
EMERG SAFE ALT 100 NM 13,700

JONUG 12
VGSI and ILS glidepath not coincident (VGSI Angle 2.75/TCH 53).
700
4400
hdg 011°
BAB R-326
2600
145°
HAMMS 5.9
ILA R-052
1600
2.5
HEGOP 1.5
TACAN
GS 2.75°
TCH 47
4.4 NM
0.5

ELEV 113
TDZE 113
145°
15
BCN 240
TWR 274
12,001 x 300
33
HIRL all Rwys

| CATEGORY | A | B | C | D | E |
|---|---|---|---|---|---|
| S-ILS 15* | 313/24 | | 200 | (200-½) | |
| S-LOC 15** | 600/24 487 (500-½) | | 600/50 487 (500-1) | | |
| C CIRCLING*** | 600-1 487 (500-1) | | 600-1½ 487 (500-1½) | 800-2¼ 687 (700-2¼) | 800-2½ 687 (700-2½) |

MARYSVILLE, CALIFORNIA

# ILS or LOC Y RWY 33

BEALE AFB (KBAB)

| LOC I-MIZ | APCH CRS | Rwy ldg | 12,001 |
|---|---|---|---|
| 109.5 | 325° | TDZE | 105 |
| | | Arpt Elev | 113 |

- (USAF)

RADAR or DME required.

* When ALS inop, increase RVR to 40 and vis to 3/4 mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile; CAT CDE RVR to 60 and vis to 1 1/8 miles.

ALSF-1

MISSED APPROACH: Climb to 3600 intercept BAB TACAN R-326 to HAPAK and hold.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |

*** Circling not authorized E of Rwy 15-33.

BAB 25
146°
326°
HAPAK BAB 16
R-326
1000
4774
3000
2352
285
BEALE BAB Chan 23
LOCALIZER 109.5 I-MIZ
258
RUENZ BAB 3.7
370
ZEGSO BAB 5.8
1700
325° (9.2)
145°
(IF) ZUTUK BAB 15
R-145
LR-136
3200
BAB 15 Arc
(IAF) ZALNO BAB 15
8000
R-090
MSA BAB 25 NM
150°
5600
3500
290°

EMERG SAFE ALT 100 NM 13,700

3600 BAB R-326
HAPAK BAB 16
ZUTUK 15
ZEGSO 5.8
325°
3200
RUENZ 3.7
TACAN
ZAPUX 1.5
2.1
1000
1700
GS 3.00°
TCH 50
0.5
2.2 NM
2.1 NM

ELEV 113
TDZE 105
15
BCN 240
12,001 x 300
TWR 274
33
325°
HIRL all Rwys

| CATEGORY | A | B | C | D | E |
|---|---|---|---|---|---|
| S-ILS 33* | 305/24 | | 200 | (200-½) | |
| S-LOC 33** | 520/24 | 415 (500-½) | 520/40 | 415 | (500-¾) |
| C CIRCLING*** | 600-1 | 487 (500-1) | 600-1½ 487 (500-1½) | 800-2¼ 687 (700-2¼) | 800-2½ 687 (700-2½) |


SW-2, 22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA
Amdt 6 22FEB24

39°08'N - 121°26'W

BEALE AFB (KBAB)

ILS or LOC Y RWY 33

MARYSVILLE, CALIFORNIA

# RNAV (GPS) RWY 15

BEALE AFB (KBAB)

| APCH CRS 145° | Rwy ldg 12,001<br>THRE 113<br>Arpt Elev 113 | - (USAF) |
|---|---|---|

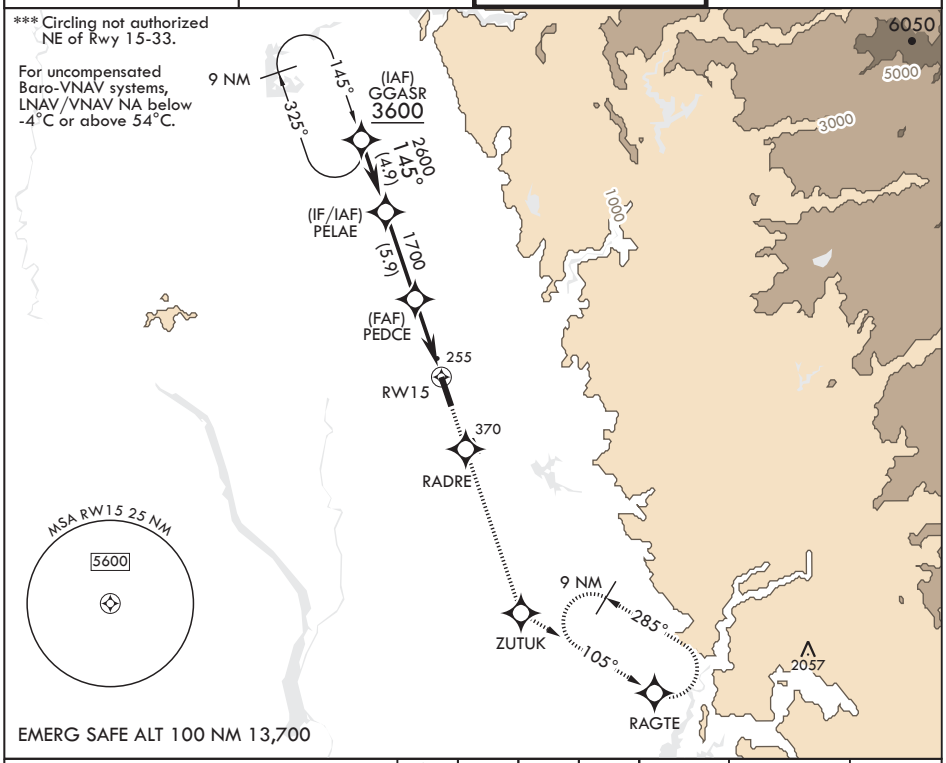
RNP APCH

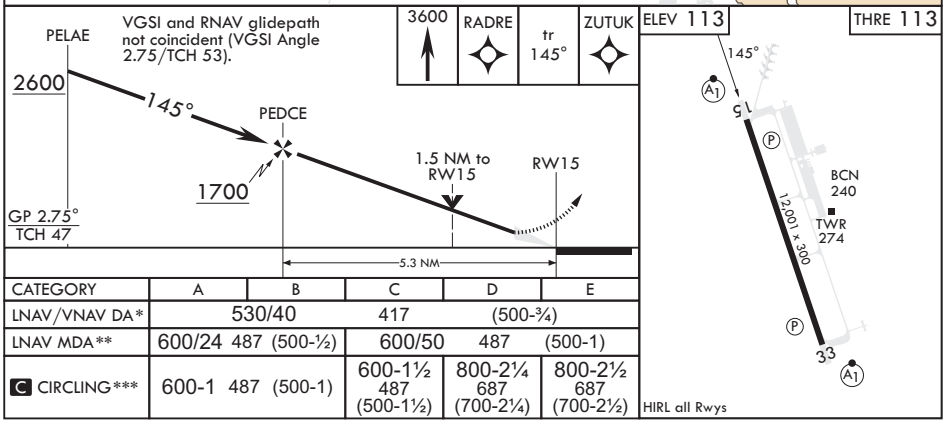
T * When ALS inop, increase RVR to 60, vis to 1 1/8 miles.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile; CAT CDE vis to 1 3/8 miles.

ALSF-1

MISSED APPROACH: Climb to 3600 direct RADRE, track 145° to ZUTUK, track 105° to RAGTE and hold, continue climb-in-hold to 3600.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | A | B | C | D | E |
|---|---|---|---|---|---|
| LNAV/VNAV DA* | 530/40 | | 417 | (500-¾) | |
| LNAV MDA** | 600/24 487 (500-½) | | 600/50 | 487 | (500-1) |
| C CIRCLING*** | 600-1 487 (500-1) | | 600-1½ 487 (500-1½) | 800-2¼ 687 (700-2¼) | 800-2½ 687 (700-2½) |


SW-2, 22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA

# RNAV (GPS) RWY 33

BEALE AFB (KBAB)

| APCH CRS 325° | Rwy ldg 12,001<br>THRE 105<br>Arpt Elev 113 |
|---|---|

- (USAF)

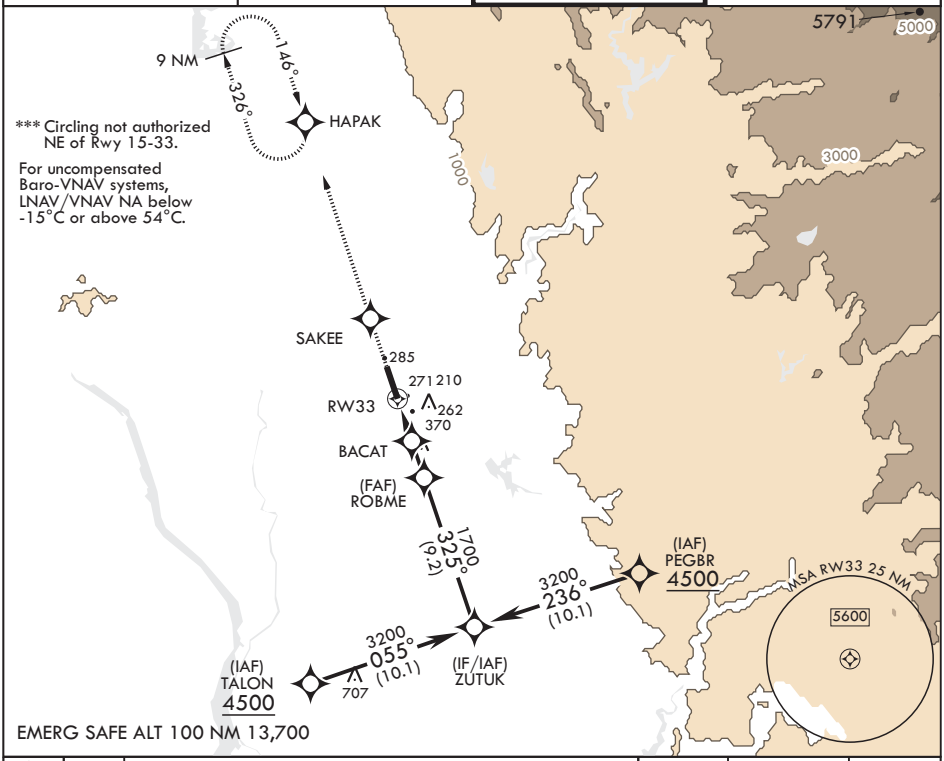
RNP APCH

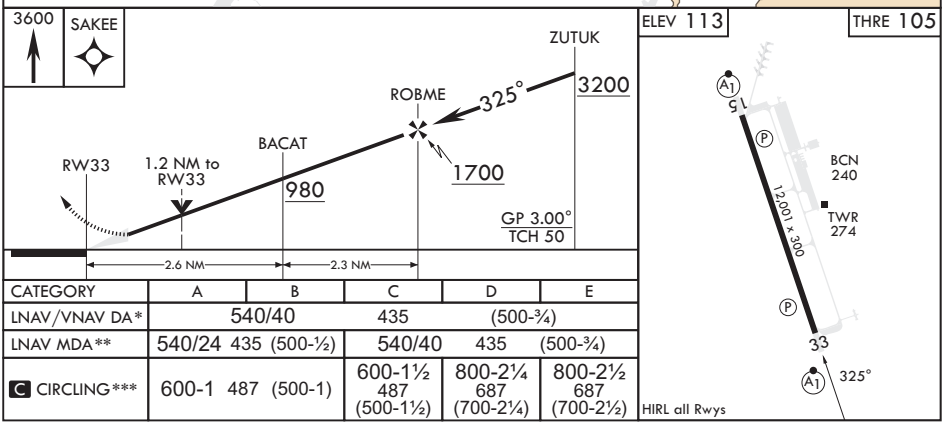
T * When ALS inop, increase vis to 1 1/4 miles.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/4 miles.

ALSF-1

MISSED APPROACH: Climb to 3600 direct SAKEE, track 326° to HAPAK and hold.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | A | B | C | D | E |
|---|---|---|---|---|---|
| LNAV/VNAV DA* | 540/40 | | 435 | (500-¾) | |
| LNAV MDA** | 540/24 | 435 (500-½) | 540/40 | 435 | (500-¾) |
| C CIRCLING*** | 600-1 | 487 (500-1) | 600-1½<br>487<br>(500-1½) | 800-2¼<br>687<br>(700-2¼) | 800-2½<br>687<br>(700-2½) |

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MARYSVILLE, CALIFORNIA

# TACAN Y RWY 15

BEALE AFB (KBAB)

| TACAN BAB Chan 23 | APCH CRS 153° | Rwy ldg 12,001<br>TDZE 113<br>Arpt Elev 113 |
|---|---|---|

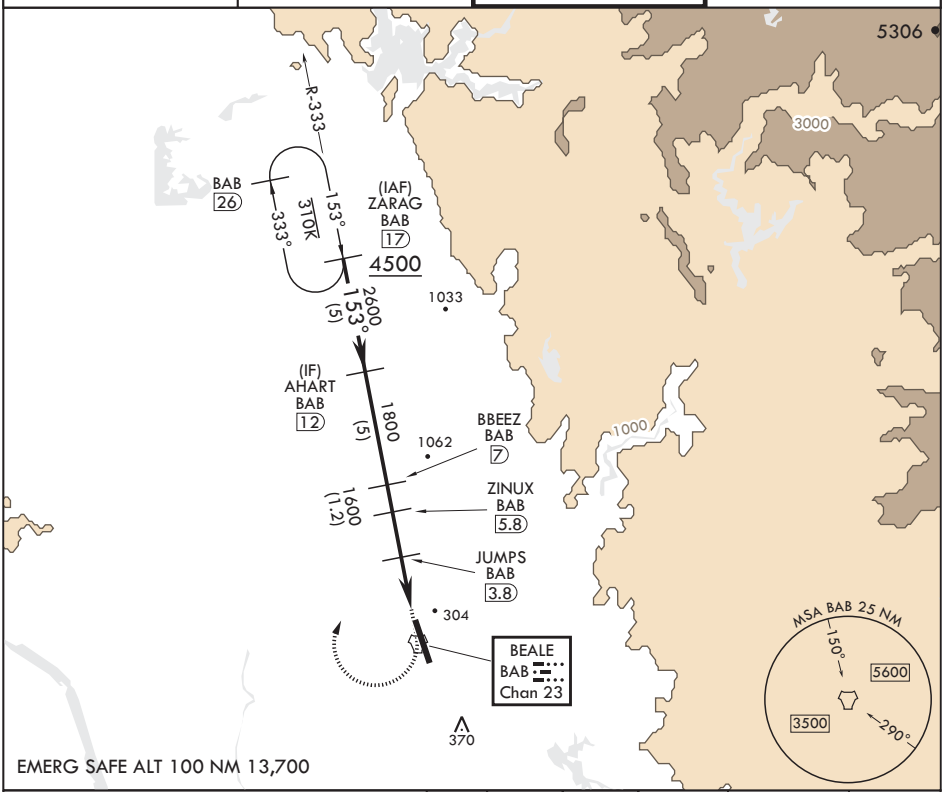
- (USAF)

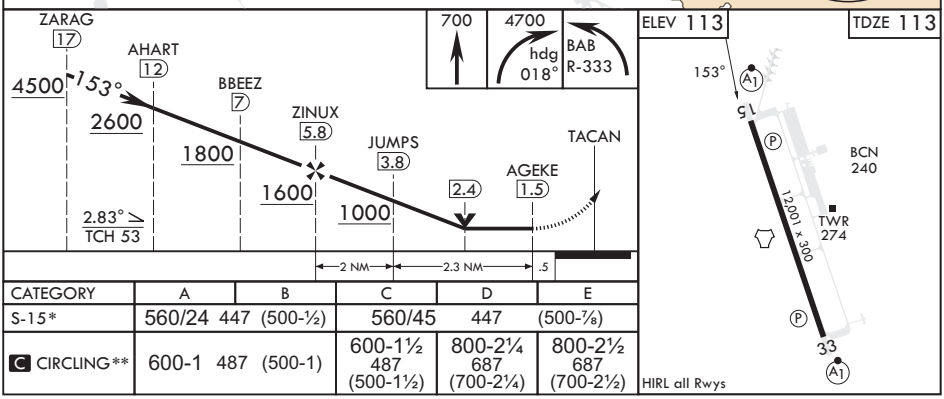
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 3/8 miles.
** Circling not authorized E of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 700 on heading 153°, then climbing right turn to 4700 heading 018° to intercept BAB R-333 to ZARAG and hold, continue climb-in-hold to 4700.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | A | B | C | D | E |
|---|---|---|---|---|---|
| S-15* | 560/24 447 (500-½) | | 560/45 447 (500-⅞) | | |
| C CIRCLING** | 600-1 487 (500-1) | | 600-1½ 487 (500-1½) | 800-2¼ 687 (700-2¼) | 800-2½ 687 (700-2½) |




SW-2, 22 FEB 2024 to 21 MAR 2024

MARYSVILLE, CALIFORNIA

# TACAN Y RWY 33

BEALE AFB (KBAB)

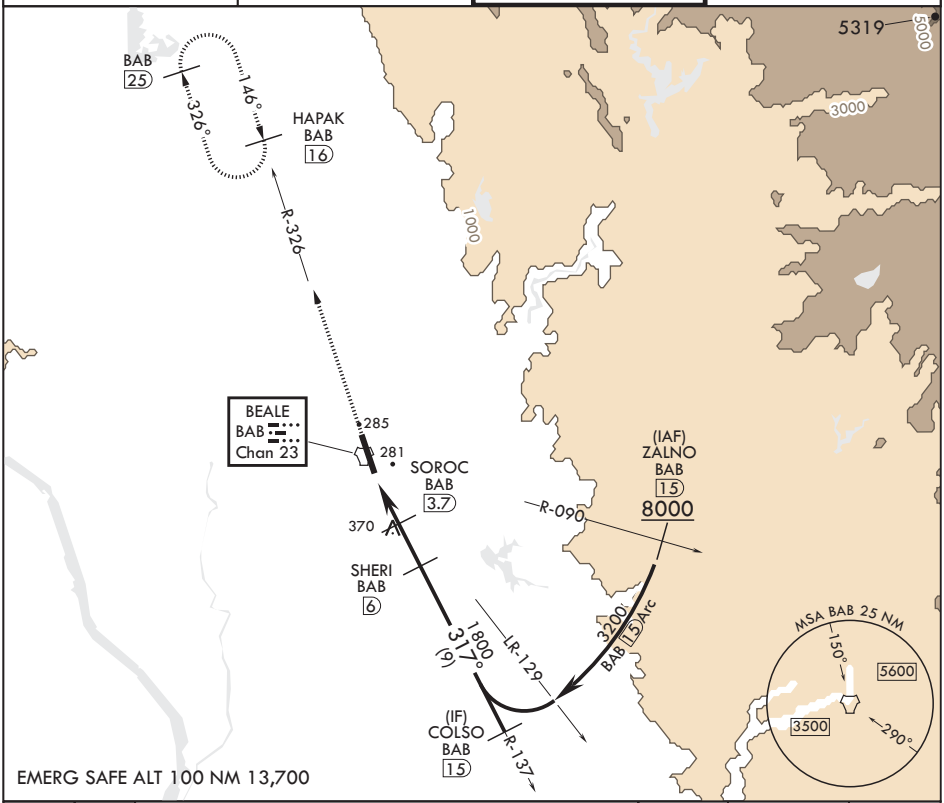
| TACAN BAB Chan 23 | APCH CRS 317° | Rwy ldg 12,001<br>TDZE 105<br>Arpt Elev 113 | - (USAF) |
|---|---|---|---|

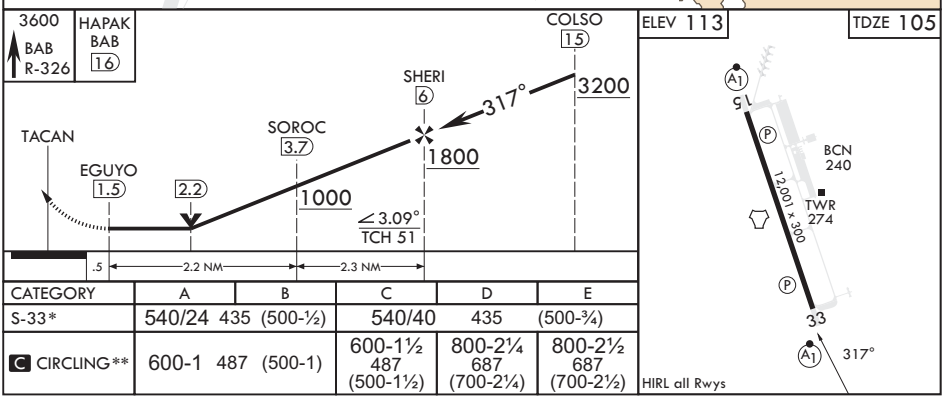
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/4 miles.
** Circling not authorized E of Rwy 15-33.

ALSF-1

MISSED APPROACH: Climb to 3600 intercept BAB TACAN R-326 to HAPAK and hold.

| ATIS★ | NORCAL APP CON | TOWER★ | GND CON |
|---|---|---|---|
| 124.55 273.5 | 125.4 259.1 | 119.4 284.75 | 121.6 257.75 |




| CATEGORY | A | B | C | D | E |
|---|---|---|---|---|---|
| S-33* | 540/24 435 (500-½) | | 540/40 | 435 | (500-¾) |
| C CIRCLING** | 600-1 487 (500-1) | | 600-1½ 487 (500-1½) | 800-2¼ 687 (700-2¼) | 800-2½ 687 (700-2½) |

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# 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.

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## 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.

## 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, NAVAID, 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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## 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.

## BECKWOURTH, 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**



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## 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,** 200-1⅛ 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.

## 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

## 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.

**CON'T**



22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## 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.
**Rwys 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**

## 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.
Tree 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**

## 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.

## 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.

## 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**



22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## 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

AMDT 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

AMDT 1 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:
**Rwy 9,** 600-2¾ 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

AMDT 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.

## 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.
Ttrees 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.

## 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 (1O2)
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.

22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

**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 (1O3)
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.

**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,** windsock 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.

## 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/781' MSL.
Tower 2 NM from DER 3305' left of centerline, 27' AGL/767' MSL.
**CON'T**

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## 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.

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## 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.

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## 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,** 300-1⅝ 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.

## 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.

## 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.

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## 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.

## 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.

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## 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.

## SAN CARLOS, CA

SAN CARLOS (SQL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10AUG23 (23222) (FAA)

TAKEOFF MINIMUMS:

**Rwy 12,** 300-1⅜ or std w/min climb of 240'/NM to 300.

**Rwy 30,** 300-1⅜ 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.

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## 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.

Ol 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**



22 FEB 2024 to 21 MAR 2024
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## 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, t-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, t-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.

## SAN JOSE, CA (CON'T)

REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

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.

22 FEB 2024 to 21 MAR 2024
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## 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**

## 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,** 300-1⅜ 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**

22 FEB 2024 to 21 MAR 2024
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## 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**



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## 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 26,** 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 cntrln, 65' AGL/120' MSL.
Potential acft 620' to 1925' from DER, 600' right of cntrln, 65' AGL/125' MSL.
Parked acft 860' to 1780' from DER, 770' left of cntrln, 58' AGL/125' MSL.
Potential acft 1925' from DER, 385' left and right of cntrln, 65' AGL/125' MSL.
**Rwy 3R,** pylon 5508' from DER, 1641' left of cntrln, 105' AGL/154' MSL.
**Rwy 21L,** potential acft 210' from DER, 650' right of cntrln, 65' AGL/118' MSL.
Light poles 140' to 920' from DER, 550' to 670' left of cntrln, 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**



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## 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**

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## 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' left 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-I 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**

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## 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 (WVI)

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.

## 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

AMDT 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

AMDT 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

AMDT 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.