## IFR Alternate Minimums

Standard alternate minimums for non-precision approaches and approaches with vertical guidance (NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RN P)) are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ALTERNATE MINS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CONCORD, CA</strong></td>
<td><strong>ALTERNATE MINIMUMS</strong></td>
</tr>
<tr>
<td>BUCHANAN FIELD (CCR)</td>
<td>LDA Rwy 19R</td>
</tr>
<tr>
<td>RNAV (GPS) Rwy 1</td>
<td>VOR 19R</td>
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<td><strong>ARCATA/EUREKA, CA</strong></td>
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<td>ATWATER, CA</td>
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<tr>
<td><strong>BISHOP, CA</strong></td>
<td>LDA Rwy 17 1^</td>
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<tr>
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<td>RNAV (GPS) Z Rwy 12</td>
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<td>BYRON (C83)</td>
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<tr>
<td><strong>CHICO, CA</strong></td>
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<td>JACK MC NAMARA FIELD (CEC)</td>
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<td>2VOR DME Rwy 12</td>
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<td>3VOR DME Rwy 36</td>
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<td><strong>FRESNO, CA</strong></td>
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<td>FRESNO CHANDLER EXECUTIVE (FCH)</td>
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<td><strong>FRESNO YOSEMITE</strong></td>
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<tr>
<td>INTL (FAT)</td>
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<td><strong>GRASS VALLEY, CA</strong></td>
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<td>NEVADA COUNTY (GOO)</td>
<td>Category D, 800-2½.</td>
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<td>ALTERNATE MINIMUMS</td>
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| **HAYWARD, CA** | EXECUTIVE (HWD).................LOC/DME Rwy 28L<sup>1</sup>  
RNAV (GPS) Rwy 28L  
VOR/DME-A |
| HAYWARD | NA when control tower closed. |
| **HOLLISTER, CA** | MUNI (CVH)...................RNAV (GPS) Rwy 31 |
| HOLLISTER | NA when local weather not available. |
| **LINCOLN, CA** | LINCOLN RGNL/KARL HARDER FIELD (LHM)........RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33 |
| LINCOLN | NA when local weather not available. |
| **LIVERMORE, CA** | LIVERMORE MUNI (LVK)...........ILS Rwy 25R<sup>1</sup>  
LOC Rwy 25R<sup>23</sup>  
RNAV (GPS) Rwy 25R<sup>4</sup> |
| LIVERMORE | NA when control tower closed.  
NA when tower closed. |
| **MAMMOTH LAKES, CA** | YOSEMITE (MMH)................RNAV (GPS) Rwy 27  
Categories A, B, 1300-2; Categories C, D, 1600-3. |
| MAMMOTH | Categories A, B, 1300-2; Categories C, D, 1600-3. |
| **MARYSVILLE, CA** | YUBA COUNTY (MYV).........RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32 |
| MARYSVILLE | NA when local weather not available. |
| **MODESTO, CA** | MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)...........ILS or LOC Rwy 28R<sup>12</sup>  
RNAV (GPS) Rwy 28R<sup>3</sup>  
VOR Rwy 28R<sup>3</sup> |
| MODESTO | NA when control tower closed.  
LOC, Category D, 800-2½.  
Category D, 800-2½. |
| **MONTEREY, CA** | MONTEREY RGNL (MRY)...............ILS or LOC Rwy 10R<sup>12</sup>  
LOC Rwy 28L<sup>13</sup>  
RNAV (GPS) Rwy 10R<sup>6</sup>  
RNAV (GPS) Y Rwy 28L<sup>4</sup>  
RNAV (RNP) Z Rwy 28L<sup>3</sup> |
| MONTEREY | NA when control tower closed.  
LOC, Category C, 1100-3; Category D, 1600-3.  
Categories A, B, 1700-2, Categories C, D, 1700-3.  
Categories A, B, 900-2, Category C, 1100-3.  
Categories A, B, C, 1000-3.  
Category C, 1100-3; Category D, 1600-3. |
| **MOUNTAIN VIEW, CA** | MOFFET FEDERAL AFLD (NUQ)............ILS or LOC Rwy 32R<sup>12</sup>  
LOC Rwy 14L<sup>13</sup>  
RNAV (GPS) Rwy 14L<sup>4</sup>  
RNAV (GPS) Rwy 14R<sup>5</sup>  
RNAV (GPS) Rwy 32L<sup>4</sup>  
RNAV (GPS) Rwy 32R<sup>3</sup>  
TACAN Rwy 32L<sup>15</sup>  
TACAN Rwy 32R<sup>15</sup> |
| MOUNTAIN VIEW | NA when tower closed.  
LOC, Category D, 800-2½; Category E, 1000-3.  
Category D, 800-2½.  
Category D, 800-2½; Category E, 1000-3. |
| **NAPA, CA** | NAPA COUNTY (APC)...............ILS or LOC Z Rwy 1L<sup>12</sup>  
RNAV (GPS) Y Rwy 1L<sup>6</sup>  
VOR Rwy 6<sup>5</sup> |
| NAPA | NA when local weather not available.  
NA when control tower closed.  
LOC, Categories C, D, 1300-3.  
Categories A, B, 1300-3; Categories C, D, 1300-3.  
Categories A, B, C, D, 1300-5.  
Categories C, D, 1300-3. |
| **OAKLAND, CA** | METROPOLITAN OAKLAND INTL (OAK)........IALS or LOC Rwy 12<sup>1</sup>  
ILS or LOC Rwy 30<sup>1</sup>  
ILS or LOC/DME Rwy 28R<sup>1</sup>  
RNAV (GPS) Rwy 10L<sup>2</sup>  
RNAV (GPS) Rwy 10R<sup>2</sup>  
RNAV (GPS) Y Rwy 12<sup>2</sup>  
RNAV (GPS) Y Rwy 28L<sup>2</sup>  
RNAV (GPS) Y Rwy 28R<sup>2</sup>  
VOR Rwy 10R<sup>2</sup> |
| OAKLAND | ILS, Category C, 700-2; Category D, 1400-3;  
LOC, Category D, 1400-3.  
Category D, 1400-3. |
<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
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<tbody>
<tr>
<td>PALO ALTO, CA</td>
<td>PALO ALTO (PAO)----------RNAV (GPS) Rwy 31</td>
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<td>PETALUMA, CA</td>
<td>PETALUMA MUNI (O69)----------RNAV (GPS) Rwy 29</td>
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<td>PLACERVILLE, CA</td>
<td>PLACERVILLE (PVF)----------RNAV (GPS) Rwy 5</td>
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<td>RED BLUFF, CA</td>
<td>RED BLUFF MUNI (RBL)----------RNAV (GPS) Rwy 15¹</td>
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<td>RNAV (GPS) Rwy 33</td>
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<td>VOR Rwy 33</td>
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<td>VOR/DME Rwy 15¹</td>
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<td>REDDING, CA</td>
<td>REDDING MUNI (RDD)----------ILS or LOC Rwy 34¹²</td>
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<td>LOC BC Rwy 16¹³</td>
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<td>VOR Rwy 34¹⁴</td>
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<td>²LOC, Category D, 900-2½; Category E, 900-3.</td>
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<td>⁴Categories A, B, 1200-2; Categories C, D, 1200-3.</td>
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<td>SACRAMENTO, CA</td>
<td>SACRAMENTO EXECUTIVE (SAC)----------ILS or LOC Rwy 2¹</td>
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<td>RNAV (GPS) Rwy 2</td>
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<td>VOR Rwy 2</td>
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<td>SACRAMENTO</td>
<td>SACRAMENTO INTL (SMF)----------ILS or LOC Rwy 17¹²</td>
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<td>RNAV (GPS) Y Rwy 17¹²</td>
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<td>RNAV (GPS) Y Rwy 35¹⁴</td>
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<td>SACRAMENTO MATHER (MHR)----------ILS or LOC Rwy 22¹²¹²</td>
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<td>³Category D, 800-2½.</td>
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<td>⁴NA when local weather not available.</td>
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<td>SALINAS, CA</td>
<td>SALINAS MUNI (SNS)----------ILS Rwy 31¹</td>
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<td>³Category D, 1000-3.</td>
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<td>SAN CARLOS (SQL)----------RNAV (GPS) Y Rwy 30¹</td>
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<td>SAN FRANCISCO INTL (SFO)----------ILS or LOC Rwy 19L¹</td>
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<td>NORMAN Y MINETA SAN JOSE INTL (SJC)----------ILS or LOC Rwy 12R¹</td>
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<td>SAN MARTIN (E16)----------RNAV (GPS) Rwy 32</td>
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<tr>
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<td>ALTERNATE MINIMUMS</td>
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<sup>1</sup>NA when control tower closed.
<sup>2</sup>ILS, LOC, Category C, 1000-3; Category D, 1300-3.
<sup>3</sup>Category C, 1000-3; Category D, 1300-3.
<sup>4</sup>NA when local weather not available.
**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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<tr>
<th>NAME</th>
<th>TAKEOFF MINIMUMS</th>
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<th>TAKEOFF MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTURAS, CA</td>
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<td>ALTURAS MUNI (AAT)</td>
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<tr>
<td>TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES</td>
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<td>AMDT 2 08101 (FAA)</td>
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<td>DEPARTURE PROCEDURE: Use BACHS DEPARTURE.</td>
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<td>AMDEE AAF (KAHC)</td>
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<td>HERLONG, CA</td>
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<td>AMDT 2 20030</td>
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<td>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 AMDEE AAF at or above 8000 before proceeding on course.</td>
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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ARCATA-EUREKA, CA
CALIFORNIA REDWOOD COAST—HUMBOLDT COUNTY (ACV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8 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, 386’ 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.

TAKEOFF OBSTACLE NOTES (CON’T)
CALIFORNIA REDWOOD COAST—HUMBOLDT COUNTY (ACV) (CON’T)
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 282’ 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. Trees 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.

ATWATER, CA
CASTLE (MER)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 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, climbing 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, climbing 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 1A 11349 (FAA)
TAKEOFF MINIMUMS: Rwy 7, 300-1 w/ min. climb of 387' per NM to 2500, or 1100-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 7, climbing left turn to 5000 heading 310°, and MYV VOR/DME R-083 to MYV VOR/DME, then via MYV VOR/DME R-263 to YUBBA INT before proceeding on course, or for climb in visual conditions: cross Auburn Muni airport at or above 2500, continue climb to 5000 via heading 275° and MYV VOR/DME R-094 to MYV VOR/DME, then via MYV VOR/DME R-263 to YUBBA INT before proceeding on course. Rwy 25, climbing right turn to 5000 via heading 310° and MYV VOR/DME R-083 to MYV VOR/DME, then via MYV VOR/DME R-263 to YUBBA INT before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 7, trees beginning 1117' from DER, 504' right of centerline, up to 40' AGL/1679' MSL. Tree 3791' from DER, 700' right of centerline, 40' AGL/1639' MSL. Rwy 25, tree 37' from DER, 479' left of centerline, 40' AGL/1528' MSL. Tree 86' from DER, 461' right of centerline, 40' AGL/1532' MSL. Fence 301' from DER, 244' right of centerline, 8' AGL/1508' MSL. Trees beginning 660' from DER, 249' right of centerline, up to 40' AGL/1659' MSL.

BEALE AFB (KBAB)
MARYSVILLE, CA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2, 14149
DEPARTURE PROCEDURE: Rwy 15, Climb on a heading between 100° CW to 325° from DER. Rwy 33, Climb on a heading between 146° CW to 344° from DER.
TAKEOFF OBSTACLE NOTES: Rwy 33, terrain 118' MSL, 62' from DER, 500' right of centerline. Terrain 118' MSL, 3' from DER, 517' right of centerline. Aircraft tail 16' AGL/134' MSL, 39' from DER, 533' right of centerline. ircraft tail 16' AGL/134' MSL, 129' from DER, 525' right of centerline.

BECKWOURTH, CA
NERVINO (O02)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 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.
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 18088 (FAA)
TAKEOFF MINIMUMS: Rwys 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 T299 westbound cross NIKOL at or above 12200; all other aircraft cross NIKOL at or above 11000.
VCOA: All runways, 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: Rwys 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 17229 (FAA)
TAKEOFF MINIMUMS: Rwy 23, NA - obstacles. Rwy 30, 200-1 1/2 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 trees, building, and terrain beginning 66’ from DER, 226’ 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 MUNI (CIC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 20142 (FAA)
DEPARTURE PROCEDURE: Rwy 13L/R, climbing right turn heading 230° to intercept V-23/T-261. Rwy 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. Rwy 31R, trees beginning 947' from DER, 560' left of centerline, up to 241' MSL. TAKEOFF OBSTACLE NOTES: Rwy 31L, vehicles on road beginning at DER, left and right of centerline, up to 225' 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 1 19087 (FAA)
TAKEOFF MINIMUMS:
Rwy 32, NA - obstacles.
Rwy 14, 700-3 w/ min. climb of 390' per NM to 1200 or standard w/ min. climb of 744' per NM to 1000, or 3600-3 for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 14, climb direct STS VOR/DME, thence . . . or climb in visual conditions to cross Cloverdale Muni airport at or above 3700 before proceeding on course.
... Climb in STS VOR/DME holding pattern, hold NW, right turn, 140° inbound, to cross STS VOR/DME at or above MEA/MCA for direction of flight.
TAKEOFF OBSTACLE NOTES: Rwy 14, trees beginning 19' from DER, 23' right of centerline, up to 100' AGL/404' MSL. Trees beginning 1.6 NM from DER, 491' right of centerline, up to 100' AGL/442' MSL. Trees beginning 258' from DER, on centerline, up to 100' AGL/296' MSL. Trees beginning 21' from DER, 7' left of centerline, up to 100' AGL/442' MSL. Trees beginning 1.7 NM from DER, 34' left of centerline, up to 100' AGL/679' MSL. Buildings 1524' from DER, 110' right of centerline, up to 427' MSL. Buildings 4605' from DER, 532' left of centerline, up to 408' MSL.

COLUMBIA, CA
COLUMBIA (O22)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 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, 660' 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-A 16315 (FAA)
TAKEOFF MINIMUMS: Rwy 31, 300-1 or std. w/min. climb of 310' per NM to 400.
DEPARTURE PROCEDURE: Rwy 31, climbing left turn direct IALA VORTAC before proceeding on course. Rwy 13, climbing right turn direct IALA VORTAC before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 13, fence 1' from DER, 234' right of centerline, 49' MSL. Tree 138' from DER, 346' right of centerline, 77' MSL. Bldg 255' from DER, 496' right of centerline, 62' MSL. Trees beginning 543' from DER, 146' right of centerline, up to 85' MSL. Bldg 1476' from DER, 428' left of centerline, 61' AGL/107' MSL. Rwy 13, tower 2195' from DER, 988' left of centerline, 55' AGL/105' MSL. Tower 4958' from DER, 1806' right of centerline, 190' AGL/240' MSL.
CONCORD, CA
BUCHANAN FIELD (CCR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3  17173 (FAA)

TAKEOFF MINIMUMS

Rwy 1L/R, standard with minimum climb of 330’ per NM to 1000 or 3700-3 for VCOA. Rwy 14L/R, standard with minimum climb of 420’ per NM to 2700 or 3700-3 FOR VCOA.

BUCHANAN FIELD (CCR)

TAKEOFF MINIMUMS

Rwys 1L/R, standard with minimum climb of 490’ per NM to 3200 or 3700-3 for VCOA. Rwy 32L/R, standard with minimum climb of 330’ per NM to 1000 or 3700-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 1L/R, 14L/R, 19L/R, climbing left turn direct CCC (VOR/DME), thence... Rwy 32L/R, climbing right turn direct CCC (VOR/DME), thence...

...aircraft departing on CCC (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

TAKEOFF MINIMUMS:

VCOA:

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

TAKEOFF OBSTACLE NOTES:

...aircraft departing on CCR VOR/DME R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

BUCHANAN FIELD (CON'T)

CONCORD, CA (CON'T)

Rwy 15R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 709’ from DER, 66’ right of centerline, up to 40’ MSL.

BUCHANAN FIELD (CON'T)

Rwy 18R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 709’ from DER, 66’ right of centerline, up to 40’ MSL.

...aircraft departing on CCR (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

BUCHANAN FIELD (CON'T)

CONCORD, CA

Rwy 19R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 710’ from DER, 67’ right of centerline, up to 40’ MSL.

...aircraft departing on CCR (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

BUCHANAN FIELD (CON'T)

CONCORD, CA

Rwy 19R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 710’ from DER, 67’ right of centerline, up to 40’ MSL.

...aircraft departing on CCR (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

BUCHANAN FIELD (CON'T)

CONCORD, CA

Rwy 19R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 710’ from DER, 67’ right of centerline, up to 40’ MSL.

...aircraft departing on CCR (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

BUCHANAN FIELD (CON'T)

CONCORD, CA

Rwy 19R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 710’ from DER, 67’ right of centerline, up to 40’ MSL.

...aircraft departing on CCR (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.

BUCHANAN FIELD (CON'T)

CONCORD, CA

Rwy 19R, terrain 43’ from DER, 297’ left of centerline, 75’ MSL. Pole and trees beginning 164’ from DER, 46’ left of centerline, up to 40’ MSL. Vehicles on road beginning 710’ from DER, 67’ right of centerline, up to 40’ MSL.

...aircraft departing on CCR (VOR/DME) R-150 clockwise R-2700 or 3700-3 FOR VCOA.

14L/R, standard with minimum climb of 420’ per NM to 330’ per NM to 1000 or 3700-3 for VCOA.
CRESCE NTY, CA
JACK MC NAMARA FIELD (CEC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 19003 (FAA)
TAKEOFF MINIMUMS: Rw y 12, 300-2' 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. Rw y 36, 300-1' or std. w/min. climb of 308' per NM to 400. Rw y 36, 300-1' or std. w/min. climb of 443' per NM to 300.
DEPARTURE PROCEDURE: Rw ys 12, 18, climbing right turn, thence... Rw ys 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, 34º 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: Rw y 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, 15' left of centerline, up to 174' 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. 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' MSL of centerline, 320' AGL/333' MSL. Rw y 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 318' left of centerline, up to 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, up to 1900' MSL. Terrain 4973' from DER, 1722' right of centerline, 242' MSL. Rw y 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, up to 149' MSL. Tree 164' from DER, 439' left of centerline, 73' MSL. Rw y 36, terrain six' 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.

DIA V, CA
UNIVERSITY (EDU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 09127 (FAA)
DEPARTURE PROCEDURE: Rw y 17, climbing right turn via heading 200° and ILA R-151 to EM BER INT/ILA 48 DME before proceeding on course. Rw y 35, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw y 17, trees beginning 1353' from DER, 31' right of centerline, up to 40' AGL/109' MSL. Rw y 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 18200 (FAA)
DEPARTURE PROCEDURE: Rw y 16, climbing heading 164° to 2200 before turning right. Rw y 34, climbing heading 344° to 1500 before turning left.
TAKEOFF OBSTACLE NOTES: Rw y 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. Rw y 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, 54' left of centerline, 206' MSL.

CRESCE NTY, CA (CONT'N)
JACK MC NAMARA FIELD (CEC) (CONT'N)
Rw y 36 (CONT'), 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 2581' 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.
EUREKA, CA
MURRAY FIELD (EKA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 09239 (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 Eureka 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 802' from DER, 4' left of centerline up to 15' AGL/23' MSL. Bush 566' from DER, 69' left of centerline, 8' AGL/18' MSL.

FRESNO, CA
FRESNO CHANDLER EXECUTIVE (FCH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 19283 (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, traversal 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, traversal way, vegetation, fence beginning 95' from DER, 60' right of centerline, up to 323' MSL. Trees, poles, traversal right of centerline, up to 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, traversal way beginning 344' from DER, 14' left of centerline, up to 294' MSL. Trees, vegetation, tree beginning 390' from DER, 10' left of centerline, up to 296' MSL. Pole, trees, vegetation, traversal 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, traversal ways, vegetation beginning 499' from DER, 47' left of centerline, up to 323' MSL. Trees, poles, traversal 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. Trees, poles, tree beginning 1093' from DER, 263' left of centerline, up to 63' AGL/134' MSL. Trees, poles, building 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, buildings 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, traversal way 7' from DER, 341' right of centerline, 294' MSL. Sign 21' from DER, 120' left of centerline, 2' AGL/279' MSL. Pole, traversal way beginning 72' from DER, 374' left of centerline, up to 28' AGL/305' MSL. Trees, fences, traversal 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, traversal way, poles beginning 174' from DER, 43' left of centerline, up to 326' MSL. Electrical system, traversal way beginning 377' from DER, 7' right of centerline, up to 19' AGL/232' 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FRESNO, CA (CON’T)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 9 19253 (FAA)
TAKEOFF MINIMUMS: Rwys 11L, 11R, 29L, 29R, 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: Rw 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, 644’ right of centerline, 33’ AGL/365’ MSL. Trees 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. Rw 11R, lighting 10’ from DER, 55’ right of centerline, 1’ AGL/331’ MSL. General utility 159’ from DER, 433’ left of centerline, 33’ 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 1588’ from DER, 294’ right of centerline, 55’ AGL/385’ MSL. Electrical system, pole beginning 1598’ from DER, 262’ right of centerline, up to 57’ AGL/386’ MSL. Tree 2848’ from DER, 442’ right of centerline, 398’ MSL. Rw 29L, lighting 9’ from DER, 55’ left of centerline, 2’ AGL/331’ MSL. Pole 1458’ from DER, 393’ right of centerline, 54’ AGL/384’ MSL. Sign, 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. Rw 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, 487’ left of centerline, up to 395’ MSL.

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

GRASS VALLEY, CA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 16259 (FAA)
TAKEOFF MINIMUMS: Rw 9, 600-2 or std. w/min. climb of 400’ per NM to 4000.
DEPARTURE PROCEDURE: Rw 9, turn right. Rw 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 1 16259 (FAA)
TAKEOFF MINIMUMS: Rw 12, 2600-2 or std. with a min. climb of 306’ per NM to 3400. Rw 30, NA.
DEPARTURE PROCEDURE: Rw 12, climb runway heading to 3000, then climb direct OSI VOR/DME, to cross OSI VOR/DME at or above 3500 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 12, tree 2556’ from DER, 212’ left of centerline, 90’ AGL/104’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS) ORIG 14289 (FAA)
Rwy 12, heading as assigned by ATC.

HANFORD, CA
HANFORD MUNI (HJO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 16259 (FAA)
DEPARTURE PROCEDURE: Rw 14, climbing left turn heading 050° to intercept V-23. Rw 32, climbing right turn heading 050° to intercept V-23.
TAKEOFF OBSTACLE NOTES: Rw 14: fence 9’ from DER, 298’ left of centerline, 244’ MSL. Caneytree 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. Rw 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/283’ MSL. Tree 2159’ from DER, 434’ right of centerline, 299’ MSL.

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

PINE MOUNTAIN LAKE (E45)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 16315 (FAA)
TAKEOFF MINIMUMS: Rw 9, 600-2 or std. w/min. climb of 400’ per NM to 4000.
DEPARTURE PROCEDURE: Rw 9, turn right. Rw 27, turn left. All aircraft climb direct LIN VOR/DME. Cross LIN VOR/DME at or above 5000.

GRASS VALLEY, CA
NEVADA COUNTY (GOO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 18088 (FAA)
TAKEOFF MINIMUMS: Rw 7, NA.
DEPARTURE PROCEDURE: Rw 25, climb via MYV R-058 to 6000 then continue climb on course.

TAKEOFF OBSTACLE NOTES: Rw 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, 176’ 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.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
HAYWARD, CA
HAYWARD EXECUTIVE (HWD)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 11013 (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. Windssock, 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 16007 (FAA)
Rwy 10L/R, Heading as assigned by ATC. Rwy 28L/R, Heading as assigned by ATC; requires minimum climb of 310' per NM to 4600.

HOLLISTER, CA
HOLLISTER MUNI (CVH)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 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 SJJC R-121 direct SJJC 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, climbing heading 307° and via SJJC R-121 direct SJJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course. TAKEOFF OBSTACLE NOTES: Rwy 13, terrain beginning 992' from DER, 348' left of centerline, up to 289' MSL. Terrain beginning 2467' from DER, 154' right of centerline, up to 309' MSL, trees beginning 1277' from departure end of runway, 348' left of centerline, up to 309' MSL, trees beginning 2467' from DER, 153' right of centerline, up to 270' MSL. Rwy 31, terrain beginning 76' from DER, 392' left of centerline, up to 247' MSL. Terrain beginning 14' from DER, 179' right of centerline, up to 231' MSL.

JACKSON, CA
WESTOVER FIELD AMADOR COUNTY (JAQ)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 16315 (FAA)
 DEPARTURE PROCEDURE: Rwy 1, turn left. Rwy 19, turn right. All aircraft climb direct LIN VOR/DME, continue climb on course.

LAKEPORT, CA
LAMPSON FIELD (102)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 10098 (FAA)
TAKEOFF MINIMUMS: Rwy 10, std. with a min. climb of 400' per NM to 4500, do not exceed 210 Knots 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 Field 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
07270
Rwy 14L, Cross DER at or above 15' AGL/235' MSL. Rwy 14R, Cross DER at or above 15' AGL/245' MSL. Rwy 32L, Cross DER at or above 15' AGL/234' MSL. Departure headings 142° CW 283°, minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600. Rwy 32R, Cross DER at or above 15' AGL/239' MSL. Departure headings 142° CW 281° minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.

LINCOLN, CA
LINCOLN RGNL/KARL HARDER FIELD (LHM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 95201 (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 15036 (FAA)
Rwys 15, 33, headings as assigned by ATC.

LITTLE RIVER, CA
LITTLE RIVER (LLR)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 10154 (FAA)
 DEPARTURE PROCEDURE: Use LITTLE RIVER DEPARTURE.

LIVERMORE, CA
LIVERMORE MUNI (LVK)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 17173 (FAA)
 DEPARTURE PROCEDURE: Use LIVERMORE DEPARTURE.
 DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 15092 (FAA)
Rwys 7L, 7R, 25L, 25R, heading as assigned by ATC; requires minimum climb of 375' per NM to 5000.
LODI, CA
LODI (103)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 16315 (FAA)
TAKEOFF MINIMUMS: Rwys 12, 30, NA-Environmental.
DEPARTURE PROCEDURE: Rw 8, climb heading 076° to 600 then climbing right turn on LIN R-290 to LIN VOR/DME, thence… Rw 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: Rw 8, hangars, buildings, and vehicles on roadways beginning at DER, left and right of centerline, up to 25' AGL/244' MSL. Power lines beginning at 4.9 NM from DER, left and right of centerline, up to 160' AGL/222' MSL. Rw 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/222' MSL.

LOS BANOS, CA
LOS BANOS MUNI (LSN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 09351 (FAA)
DEPARTURE PROCEDURE: Rw 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. Rw 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: Rw 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. Rw 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 5 19283 (FAA)
TAKEOFF MINIMUMS: Rwys 8, 26, NA – environmental. Rw 12, std. w/min. climb of 250' per NM to 2000.
DEPARTURE PROCEDURE: Rw 12, climbing left turn heading 080° to intercept V-230. Rw 30, climbing right turn heading 110° to intercept V-230.

MAMMOTH LAKES, CA
MAMMOTH YOSEMITE (MMH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15064 (FAA)
DEPARTURE PROCEDURE: Use NIKOL DEPARTURE.

MARIPOSA, CA
MARIPOSA-YOSEMITE (MPI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05020 (FAA)
TAKEOFF MINIMUMS: Rw 8, N/A-Obstacles
DEPARTURE PROCEDURE: Rw 26, climb via heading 265° to 3000, then climbing left turn to 7000 direct FRA VORTAC before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 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 13178 (FAA)
DEPARTURE PROCEDURE: All runways, climb direct ILA VORTAC.
TAKEOFF OBSTACLE NOTES: Rw 5, tree 750’ from DER, 239’ right of centerline, 44’ AGL/109’ MSL. Tower 986’ from DER, 256’ 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. Rw 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. Rw 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 RGNL/MACREADY FIELD (MCE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5B 15344 (FAA)
DEPARTURE PROCEDURE: Rw 12, climbing right turn to 3000 via heading 330° and MOD R-120 to MOD. Rw 30, climb to 3000 via heading 300° and MOD R-120 to MOD.
TAKEOFF OBSTACLE NOTES: Rw 12, tree 1321’ from DER, 785’ left of centerline, 50’ AGL/190’ MSL. Rw 30, bush 183’ from DER, 490’ right of centerline, 20’ AGL/161’ MSL. Bush 986’ 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 FIELD (MOD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5A 13010 (FAA)
DEPARTURE PROCEDURE: Rwys 28L, 28R, climb on a heading between 256° CW to 109° from DER, or minimum 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, 1’ 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, 899’ right of centerline, 34’ AGL/133’ MSL. Building 979’ from DER, 697’ right of centerline, 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 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.

MONTAREY, CA
MONTEREY PNGNL (MRY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8 15344 (FAA)
TAKEOFF MINIMUMS: Rwys 10L, std. w/min. climb of 449’ per NM to 1800, or 1700-2 for climb in visual conditions. Rwys 10R, std. w/min. climb of 459’ per NM to 1800, or 1700-2 for climb in visual conditions. Rwy 28L, std. w/min. climb of 218’ per NM to 3300, or 1700-2 for climb in visual conditions. DEPARTURE PROCEDURE: Rwys 10L, climbing left turn heading 045.00 and SNS VOR/RAC 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. Rwys 10R, 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 requested 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: Rwys 10L, NAVIAD 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/272’ 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, 1933’ right of centerline up to 90’ AGL/923’ MSL. Bushes beginning 1.9 NM from DER, 2497’ right of centerline up to 90’ AGL/871’ MSL. Tower 2 NM from DER 3305’ left of centerline, 27’ AGL/767’ MSL. Rwys 10R, ground 11’ from DER, 358’ left of centerline 258’ MSL. Tree 230’ from DER 388’ left of centerline 21’ AGL/265’ MSL. NAVIAD 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. Rwys 28L, terrain aseam 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 16175 (FAA)
Rwy 10L, heading as assigned by ATC; requires minimum climb of 360’ per NM to 2900. Rwys 10R, heading as assigned by ATC; requires minimum climb of 370’ per NM to 2800. Rwy 28L, heading as assigned by ATC; requires minimum climb of 310’ per NM to 1100. Rwys 28R, heading as assigned by ATC; requires minimum climb of 250’ per NM to 1100.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MOUNTAIN VIEW, CA
MOFFETT FEDERAL AFLD (NUQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12292 (FAA)
TAKEOFF MINIMUMS: Rwys 14L, 14R, std. w/ min. climb of 550’ per NM to 4000 or 1700-2½ for climb in visual conditions. Rwys 32L, 32R, std. w/ min. climb of 285’ per NM to 3500 or 1700-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: Rwys 14L, 14R, 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, 32R,-climbing 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: Rwry 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. Rwry 32L, light support structures abeam DER, 76’ left and 76’ right of centerline, up to 1’ AGL/5’ MSL. Naval air 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. Rwry 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. Rwry 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.

NOVATO, CA
GNOSS FIELD (DVO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 13122 (FAA)
TAKEOFF MINIMUMS: Rwy 13, 400-2½ 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, climbing 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 Gnoess Field 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 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.

NAPA, CA
NAPA COUNTY (APC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 10154 (FAA)
DEPARTURE PROCEDURE: Use NAPA AA DEPARTURE.

NAPA, CA
NAPA COUNTY (APC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 10154 (FAA)
DEPARTURE PROCEDURE: Use NAPA AA DEPARTURE.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)

OAKLAND, CA
METROPOLITAN OAKLAND INTL (OAK)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 7 13290 (FAA)
DEPARTURE PROCEDURE: Rwys 10L, 10R, 12, 15, 30,
climbing right turn to intercept V107-301, thence …
Rwys 28L, 28R, climbing headng 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: Rw y 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. Rw y 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 26’ AGL/30’ MSL. Rw y 33, runway end
and ALS lights beginning 11’ from DER, 9’ left and right of
centerline, 1’ AGL/10’ MSL. Rw y 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. Rw y 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’
M SL. Rw y 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. Rw y 30, light pole 582’ from DER,
483’ left of centerline, 16’ AGL/26’ MSL. Rw y 33, multiple
trees, buildings and poles beginning 256’ from DER, 497’
left of centerline, up to 41’ AGL/45’ MSL. Multiple trees,
builtings, poles and towers beginning 762’ from DER, 267’
right of centerline, up to 39’ AGL/51’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 14289 (FAA)
Rwy 10L, headings as assigned by ATC; requires
minimum climb of 340’ per NM to 2300. Rw y 10R,
headings as assigned by ATC; requires minimum climb of
330’ per NM to 2300. Rw y s 12, 15, headings as assigned
by ATC. Rw y s 28L, 28R, 30, headings as assigned by
ATC; requires minimum climb of 240’ per NM to 2400. Rw
33, headings as assigned by ATC; requires minimum climb
of 210’ per NM to 2400.

ORLAND, CA
HAIGH FIELD (O37)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 20142 (FAA)
DEPARTURE PROCEDURE: Rw y 15, climb to 1000 then
climbing left turn heading 100° to intercept RBL VORTAC
R-140 to 5000 before proceeding on course. Rw y 33,
climb to 1000, then climbing right turn heading 020° to
intercept RBL VORTAC R-140 to 5000 before proceeding on
course.
TAKE OFF OBSTACLE NOTES: Rw y 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 1’ AGL/24’
M SL. 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 17173 (FAA)
TAKEOFF MINIMUMS: Rw y 2, std. w/ min. climb of 280’
per NM to 1500, or 1000-2½ for VCOA. Rw y 31, 300-1%
or std. w. min. climb of 245’ per NM to 600.
DEPARTURE PROCEDURE: Rw y 2, 31, climbing left turn
to 5000 on heading 200° direct ILA VORTAC before
proceeding on course. Rw y 13, 20, climbing right turn to
5000 on heading 210° direct I LA 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: Rw y 2, ground 170’ from
DER, 475’ right of centerline, 189’ MSL. Ground 191’ from
DER, 460’ 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. Rw y 20,
vehicles on road 819’ from DER, 1480’ from DER, 203’ MSL.
Poles beginning 902’ from DER, 655’ right of
centerline, up to 36’ AGL/217’ MSL. Rw y 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PALO ALTO, CA
PALO ALTO (PAO)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG-B 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, 60' AGL/67' MSL.

PETALUMA, CA
PETALUMA MUNI (O69)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 14317 (FAA)
TAKEOFF PROCEDURES: Rwy 11, std. w/min. climb of 235' per NM to 1500. Rwy 29, 300-1/4 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, climbing right turn thence . . .
Rwy 29, climbing left turn thence . . .
DEPARTURE PROCEDURE: 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 . . .
TAKEOFF OBSTACLE NOTES: Rwy 12, building with ship mast 1325' from DER, 60' AGL/67' MSL.

PLACERVILLE, CA
PLACERVILLE (PVF)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 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, 948' inbound) to cross HNW R-331 CW R-060, 8600; R-061 CW R-145, 7000.
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 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 . . .
DEPARTURE PROCEDURE: Rwy 15, climb direct RBL VORTAC, thence . . . Rwy 33, climbing right turn direct RBL VORTAC, thence . . .
DEPARTURE PROCEDURE: Rwy 15, climb direct RBL VORTAC, thence . . .
TAKEOFF OBSTACLE NOTES: Rwy 12, building with ship mast 1325' from DER, 60' AGL/67' MSL. Pole 906' from DER, 588' left of centerline, 49' 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 11041 (FAA)
DEPARTURE PROCEDURE: Rwy 15, climb direct RBL VORTAC, thence . . . Rwy 33, climbing right turn direct RBL VORTAC, thence . . .
DEPARTURE PROCEDURE: Rwy 15, climb direct RBL VORTAC, thence . . .
TAKEOFF OBSTACLE NOTES: Rwy 15, WSK 5' from DER, 258' right of centerline, 18' AGL/361' MSL. Pole 2065' from DER, 879' left of centerline, 100' AGL/449' MSL.

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

20142
L14
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

REDDING, CA
REDDING MUNI (RDD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5C 20030 (FAA)
DEPARTURE PROCEDURE: Rwy 12, climb on heading 126° 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: Rwys 12, trees beginning 45’ from DER, 389’ 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. Rwys 16, trees beginning 152’ from DER, 463’ right of centerline, 12’ AGL/495’ MSL. Tree 347’ from DER, 584’ right of centerline, 46’ AGL/527’ MSL. Rwys 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. Trees, building and trees 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. Trees, buildings and trees beginning 784’ from DER, 49’ right of centerline, up to 60’ AGL/563’ MSL. Tree 1588’ from DER, 55’ right of centerline, 50’ AGL/553’ MSL. Trees beginning 1672’ from DER, 431’ right of centerline, up to 69’ AGL/572’ MSL.

RIO VISTA, CA
RIO VISTA MUNI (O88)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 19339 (FAA)
DEPARTURE PROCEDURE: Rwys 7, 16, climb on heading between 132° CW to 323° from DER. Rwys 34, 16, climb on a heading between 156° CW to 320° from DER.
TAKEOFF OBSTACLE NOTES: Rwys 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. Rwys 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.

REDELEY, CA
REDELEY MUNI (O32)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 19003 (FAA)
DEPARTURE PROCEDURE: Rwy 16, climb on a heading between 132° CW to 323° from DER. Rwys 34, climb on a heading between 156° CW to 320° from DER.
TAKEOFF OBSTACLE NOTES: Rwys 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. Rwys 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.
SACRAMENTO, CA

SACRAMENTO EXECUTIVE (SAC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 19171 (FAA)

TAKEOFF OBSTACLE NOTES: Rw 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. Rw 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. Rw 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. Rw 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 INTL (SMF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 20142 (FAA)

DEPARTURE PROCEDURE: Rw 17L, climb heading 168° to 700 before turning east.
TAKEOFF OBSTACLE NOTES: Rw 17L, vehicles on road, 225’ from DER, crossing runway centerline, 10’ AGL/31’ MSL. Rw 35L, tree 3656’ from DER, 1296’ left of centerline, 98’ AGL/123’ MSL. Rw 35R, pole 1786’ from DER, 945’ right of centerline, 46’ AGL/73’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG-A 20142 (FAA)
Rw 17L, heading as assigned by ATC; requires min. climb of 220’ per NM to 700.

SACRAMENTO MATHER (MHR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 94006 (FAA)

DEPARTURE PROCEDURE: Rw 4L,4R, climbing right turn direct SAC VORTAC. Rw 22L,22R climb direct SAC VORTAC.

SALINAS, CA

SALINAS MUNI (SNS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 17321 (FAA)

TAKEOFF MINIMUMS: Rw 8, std. w/min climb of 243’ per NM to 800 or 1800-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: Rw 8, climbing right turn to intercept SNS VORTAC R-124 to 5500 before proceeding on course or for climb in visual conditions: cross Salinas Muni Airport at or above 1700 then intercept SNS VORTAC R-124 to 5500 before proceeding on course.
Rw 13, climbing left turn to intercept SNS VORTAC R-124 to 5500 before proceeding on course. Rw 26, climbing right turn to intercept SNS VORTAC R-264 to 5000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 8, trees beginning 1967’ from DER, 900’ left of centerline, up to 100’ AGL/199’ MSL. Rw 26, tree, light pole and road beginning 109’ from DER, 266’ left of centerline, up to 38’ AGL/98’ MSL. Light pole and road beginning 137’ from DER, 281’ right of centerline, up to 40’ AGL/100’ MSL. Poles beginning 909’ from DER, 232’ right of centerline, up to 52’ AGL/102’ MSL. Antenna on building, tower and tree beginning 1645’ from DER, 426’ left of centerline, up to 116’ AGL/176’ MSL. Microwave tower and tree beginning 1909’ from DER, 31’ right of centerline, up to 85’ AGL/145’ MSL. Rw 31, building, road, and trees beginning 170’ from DER, 1’ right of centerline, up to 79’ AGL/159’ MSL. Road and trees 205’ from DER, 200’ left of centerline, up to 63’ AGL/133’ MSL. Pole and trees beginning 1042’ from DER, 5’ left of centerline up to 102’ AGL/172’ MSL. Fence, poles and trees 1109’ from DER, 202’ right of centerline, up to 78’ AGL/158’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 15084 (FAA)
Rw 8, 13, heading as assigned by ATC; requires minimum climb of 330’ per NM to 5000. Rw 26, 31, heading as assigned by ATC.

SAN ANDREAS, CA

CALAVERAS CO-MAURY RASMUSSEN FIELD (CPU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 16315 (FAA)

TAKEOFF MINIMUMS: Rw 13, 1800-5 or std. w/min. climb of 306’ per NM to 3700.
DEPARTURE PROCEDURE: Rw 13, climb runway heading to 3100, then climbing right turn via LIN R-085 to LIN VOR/DME. Rw 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: Rw 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/1313’ 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. Rw 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.

DEPARTURE PROCEDURE: Rw 8, heading as assigned by ATC; requires minimum climb of 300’ per NM to 5000. Rw 26, 31, heading as assigned by ATC.

DIVERSE VECTOR AREA (RADAR VECTORS)
SAN CARLOS, CA
SAN CARLOS (SQL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 18200 (FAA)
TAKEOFF MINIMUMS: RwY 30, N/A- obstacles and ATC.
RwY 12, 300-1 or std. w/min. climb of 240’ per NM to 300.
DEPARTURE PROCEDURE: RwY 12, climb heading 120° to intercept SJC VOR/DME R-281 to SJC VOR/DME before proceeding on course.
DEPARTURE OBSTACLE NOTES: RwY 12, terrain 1’ from DER, 119’ left of centerline, 11’ MSL. Dam beginning 117’ from DER, 58’ left of centerline, up to 3’ AGL/12’ MSL. Pole 716’ from DER, 294’ right of centerline, 38’ MSL. Transmission line 1676’ from DER, 735’ right of centerline, 92’ AGL/94’ MSL. Transmission line 1.1 NM from DER, 2196’ left of centerline, 200’ AGL/208’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 16147 (FAA)
RwY 12, headings as assigned by ATC; requires minimum climb of 470’ per NM to 3400.

SAN FRANCISCO, CA
SAN FRANCISCO INTL (SFO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 15232 (FAA)
Rwys 1L, 1R, headings as assigned by ATC; requires minimum 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 16203 (FAA)
TAKEOFF MINIMUMS: RwY 12 L/R, 400-2½ or std. w/min. climb of 261’ per NM to 500.
DEPARTURE PROCEDURE: RwY 12 L/R, climbing right turn to 2000 on Heading 318° and on OAK R-135 to OAK VOR/DME before proceeding on course. RwY 30 L/R, climb via heading 315° to 2000, then via OAK R-132 to OAK VOR/DME before proceeding on course.
DEPARTURE OBSTACLE NOTES: RwY 12L, fence 156’ from DER, 57’ left of centerline, 14’ AGL/73’ MSL. Oil on blast fence, 156’ from DER, 57’ left of centerline, 34’ AGL/93’ MSL. Trees beginning 286’ from DER, 161’ right of centerline, up to 107’ AGL/121’ MSL. Trees beginning 466’ from DER, 228’ left of centerline, up to 46’ AGL/105’ MSL. Tree 1281’ from DER, 228’ 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. 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.

CONT'
SAN JOSE, CA (CON’T)

NORMAN Y MINETA SAN JOSE INTL (SJC)  (CON’T)

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, 42’ MSL. Building 1.3 NM from DER, 1145’ left of centerline, 217’ AGL/501’ 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. NAV-AID 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. NAV-AID 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. Tmsn 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/81’ 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 16203(FAA)

Rwy 12L/12R, heading as assigned by ATC; requires minimum climb of 470’ per NM to 5600. Rwy 30L/30R, heading as assigned by ATC; requires minimum 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


DEPARTURE PROCEDURE: Use DECOT DEPARTURE.

SAN MARTIN, CA

SAN MARTIN (E16)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15288(FAA)

TAKEOFF MINIMUMS: Rwy 14, std. w/min. climb of 324’ per NM to 2200 or 1700-2½ for climb in visual conditions. Rwy 32, std. w/min. climb of 324’ per NM to 1600 or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: Rwy 14, all aircraft, climb to 2100 on heading 141°. Aircraft departing northwest on V485, climbing left turn heading 284° to intercept SJC R-121 (V485) to SJC VOR/DME and proceed on course; aircraft departing southeast on V485, climb on SJC R-121 and proceed on course. For climb in visual conditions: cross San Martin airport northwest bound at or above 1900, then climb on SJC R-121 to SJC VOR/DME. When executing VCOA, notify ATC prior to departure. Rwy 32, all aircraft, climb to 1600 on heading 321°. Aircraft departing northwest on V485, climbing left turn heading 270° to intercept SJC R-121 (V485) to SJC VOR/DME and proceed on course; aircraft departing southeast on V485, climbing left turn heading 120° to intercept SJC R-121 (V485) southeast bound to GILRO INT and proceed on course. For climb in visual conditions cross San Martin airport northwest bound at or above 1900, then climb on SJC R-121 to SJC VOR/DME. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: Rwy 14, multiple trees, poles and vehicles on road beginning 25’ from DER, 800’ left of centerline, up to 100’ AGL/399’ MSL. Trees beginning 3.9 NM from DER, 1.1 NM right of center, up to 200’ AGL/1239’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 16203(FAA)

Rwy 12L/12R, heading as assigned by ATC; requires minimum climb of 470’ per NM to 5600. Rwy 30L/30R, heading as assigned by ATC; requires minimum climb of 490’ per NM to 5600 and do not exceed 210 KTS until established on assigned heading.

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

SANTA ROSA, CA
CHARLES M SCHULZ-SONOMA COUNTY
(STS)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 7 14317 (FAA)
TAKEOFF MINIMUMS: Rwy 2, std. with a min. climb of 319' per NM to 2400, or 1200-2% for climb in visual conditions.
Rwy 32, std. with a min. climb of 391' per NM to 2500, or 1200-2% for climb in visual conditions.
DEPARTURE PROCEDURE: Rws 2, 32, climbing left turn heading 164°, thence...
Rwy 14, climbing right turn heading 250°, thence...
Rwy 20, climbing left turn heading 190°, thence...
...intercept and climb on STS R-202 to cross FREES INT at or above MEA for route of flight or continue climb in FREES holding pattern (hold SE, right turns, PYE VORTAC 335° inbound) to MEA for route of flight.
VCOA: Rws 2, 32, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross STS VOR/DME southwest bound at or above 1200. Thence...
... intercept and climb on STS R-202 to cross FREES INT at or above MEA for route of flight or continue climb in FREES holding pattern (hold SE, right turns, PYE VORTAC 335° inbound) to MEA for route of flight.
TAKEOFF OBSTACLE NOTES: Rwy 2, trees beginning 492' from DER, 36' left of centerline, up to 60' AGL/156' MSL. Trees beginning 515' from DER, 114' right of centerline, up to 55' AGL/156' MSL. Trees beginning 1000' from DER, 9' left of centerline, up to 100' AGL/178' MSL. Trees beginning 1109' from DER, 135' right of centerline, up to 100' AGL/184' MSL. Trees beginning 2104' from DER, 342' right of centerline, up to 100' AGL/196' MSL. Tree 2119' from DER, 619' right of centerline, up to 100' AGL/173' MSL. Rwy 14, tree 1' from DER, 496' right of centerline, 20' AGL/136' MSL. Light structure 6' from DER, 40' left of centerline, 1' AGL/121' MSL. Trees beginning 409' from DER, 602' left of centerline, up to 50' AGL/147' MSL. Trees beginning 1201' from DER, 275' left of centerline, up to 70' AGL/167' MSL. Tree 2194' from DER, 1034' right of centerline, 60' AGL/180' MSL. Rwy 20, tree 108' from DER, 462' right of centerline, 40' AGL/162' MSL. Trees beginning 1596' from DER, 403' left of centerline, up to 100' AGL/187' MSL. Trees beginning 1498' from DER, 566' right of centerline, up to 144' AGL/274' MSL. Trees beginning 2841' from DER, 109' left of centerline, up to 123' AGL/228' MSL. Rwy 32, trees beginning 67' from DER, 891' right of centerline, up to 55' AGL/158' MSL. Trees beginning 89' from DER, on centerline, up to 55' AGL/153' MSL. Tree 1492' from DER, 319' left of centerline, up to 60' AGL/158' MSL. Tree 3187' from DER, 140' left of centerline, 167' AGL/257' MSL.

SOUTH LAKE TAHOE, CA
LAKE TAHOE (TVL)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 8 18256 (FAA)
TAKEOFF MINIMUMS: Rwy 18, std. w/min. climb of 810' per NM to 10800, or alternatively, 1600-3 w/min. climb of 765 per NM to 10800, or 5100-5 for VCOA.
Rwy 36, 300- 1% or std. w/min. climb of 755' per NM to 6500.
DEPARTURE PROCEDURE: Rwy 18, climb heading 177° to 7900 then climbing right turn to intercept and climb on SWR R-133 to SWR VOR/DME thence... Rwy 36, climb heading 357° to intercept and climb on SWR R-113 to SWR VOR/DME thence... Proceed on course.
VCOA: Rwy 18, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross South Lake Tahoe Airport at or above 11200' MSL then intercept and proceed on SWR R-127 to SWR VOR/DME.
TAKEOFF OBSTACLE NOTES: Rwy 18, pole 10' from DER, 40' left of centerline, 2' AGL/6270' MSL. Vehicles on road, sign beginning 16' from DER, 247' right of centerline, up to 6282' MSL. Trees beginning 19' from DER, 378' left of centerline, up to 98' 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 57' 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 6413' 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, vehicles 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. 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, 781' 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.
TRACY MUNI (TCY) (CON’T)
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. 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, 363’ 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 2269’ from DER, 65’ right of centerline, 74’ AGL/238’ MSL.

TRAVIS AFB (KSUU)
FAIRFIELD, CA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
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, 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 21, 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 5 15008 (FAA)
TAKEOFF MINIMUMS: Rwys 11, 20, NA - obstacles. DEPARTURE PROCEDURE: Rwys 2, 29, use TRUCK DEPARTURE.
UKIAH, CA (CON’T)

Rwy 33 (CON’T), trees, poles and signs beginning 888’ from DER, 506’ left of centerline, up to 100’ AGL/709 MSL. Building 1003’ from DER, 553’ right of centerline, 42’ AGL/649’ MSL. Tower 577’ from DER, 1155’ left of centerline, 124’ AGL/770’ MSL. Trees beginning 5909’ from DER, 1590’ left of centerline, up to 100’ AGL/769’ MSL.

VACAVILLE, CA

NUT TREE (VCB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 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/100’ MSL. Terrain 140’ from DER, 432’ right of centerline, 24’ 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 126’ 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. Terrain, tree beginning 4104’ from DER, 18’ right of centerline, up to 263’ MSL. Tree 5765’ from DER, 1605’ right of centerline, 264’ MSL.
WATSONVILLE, CA

WATSONVILLE MUNI (WVI) (CON’T)

Rwy 20 (CON’T), 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, 244’ right 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.

WATSONVILLE MUNI (WVI) (CON’T)

DEPARTURE PROCEDURE: Rwy 12, climbing right turn to heading 230° to intercept VIS VOR/DME R-151 to PIXEY INT to 3000 before proceeding on course. Rwy 30, climbing left turn to heading 230° to intercept VIS VOR/DME R-151 to PIXEY INT to 3000 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.

AMDT 1 04218 (FAA)

DEPARTURE PROCEDURE: Rwy 16, use MENDOCINO RNAV DEPARTURE. Rwy 34, use FLUEN RNAV DEPARTURE.

WATSONVILLE MUNI (WVI)

DEPARTURE PROCEDURES

AMDT 5A 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/150’ 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 227’ MSL. Pole 1174’ from DER, 326’ 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, 258’ 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, 1363’ right of centerline, 189’ AGL/292’ MSL. Rwy 20, tree 57’ from DER, 500’ left of centerline, 153’ MSL.

WATTS-WOODLAND (O41)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: Rwy 18, climbing head 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.

WILLITS, CA

WILLITTS-GLENN COUNTY (WLW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17173 (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.

WOODBURY, CA

WATTS-WOODLAND (O41)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: Rwy 18, climbing head turn 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 48 DME 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 351’ from DER, on centerline, 15’ AGL/134’ MSL. Tree 4489’ from DER, 1688’ left of centerline, 100’ AGL/234’ MSL.