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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<thead>
<tr>
<th>NAME</th>
<th>TAKEOFF MINIMUMS</th>
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<td>BATTLE MOUNTAIN, NV</td>
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<tr>
<td>TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES</td>
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<td>AMDT 4 18312 (FAA)</td>
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<td>TAKEOFF MINIMUMS: Rwy 4, std. w/min. climb of 335' per NM to 6300 or 4800-3 for VCOA.</td>
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<td>Rwy 13, std. w/min. climb of 350' per NM to 6500 or 4800-3 for VCOA.</td>
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<td>DEPARTURE PROCEDURE: Rwy 4, climb heading 036° to 6200 before proceeding on course.</td>
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<td>Rwy 13, climbing right turn heading 240° and BAM R-205 outbound to 10000 before proceeding on course.</td>
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<td>Rwy 22, climb direct BAM VORTAC and proceed on BAM R-205 outbound to 10100 before proceeding on course.</td>
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<td>Rwy 31, climb heading 306° and BAM R-324 outbound to 9100 before proceeding on course.</td>
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<td>VCOA: Rwy 4, 13, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Battle Mountain Airport at or above 9200 before proceeding on course.</td>
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<td>TAKEOFF OBSTACLE NOTES: Rwy 4, trees beginning 129' from DER, 18' right of centerline, up to 45' AGL/4570' MSL. Trees beginning 153' from DER, 55' left of centerline, up to 45' AGL/4570' MSL.</td>
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<td>Rwy 13, vehicle on road 15' from DER, 171' right of centerline, 4558' MSL. Sign 19' from DER, 250' left of centerline, 4' AGL/4537' MSL. Tree, vehicle on road beginning 42' from DER, 23' right of centerline, up to 55' AGL/4566' MSL.</td>
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<td>BATTLE MOUNTAIN, NV (CON’T)</td>
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<td>BATTLE MOUNTAIN (BAM) (CON’T)</td>
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<td>Rwy 13 (CON’T), trees beginning 116’ from DER, 151’ left of centerline, up to 45’ AGL/4566’ MSL. Trees beginning 120’ from DER, 47’ right of centerline, up to 45’ AGL/4570’ MSL. Trees beginning 497’ from DER, 128’ left of centerline, up to 45’ AGL/4570’ MSL.</td>
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<td>Trees beginning 731’ from DER, 71’ right of centerline, up to 45’ AGL/4573’ MSL. Trees beginning 956’ from DER, 79’ left of centerline, up to 45’ AGL/4573’ MSL. Trees 1493’ from DER, 667’ right of centerline, 45’ AGL/4576’ MSL.</td>
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<td>Rwy 22, tree, NAVAID, wind indicator beginning 101’ from DER, 13’ right of centerline, up to 45’ AGL/4570’ MSL. Trees beginning 125’ from DER, 133’ left of centerline, up to 45’ AGL/4570’ MSL. Trees beginning 499’ from DER, 60’ left of centerline, up to 45’ AGL/4573’ MSL. Trees beginning 1270’ from DER, 215’ left of centerline, up to 45’ AGL/4576’ MSL. Rwy 31, vegetation 33’ from DER, 487’ left of centerline, 4540’ MSL. Trees beginning 50’ from DER, 80’ right of centerline, up to 45’ AGL/4573’ MSL. Trees beginning 124’ from DER, 46’ left of centerline, up to 45’ AGL/4573’ MSL.</td>
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TAKEOFF OBSTACLE NOTES: Rwys 13, vegetation on DER, 24' right of centerline, 5986' MSL. Terrain beginning 3586' from DER, 89' left of centerline, up to 5981' MSL. Terrain 4064' from DER, 13' left of centerline, up to 5975' MSL. Terrain beginning 4056' from DER, 40' left of centerline, up to 5964' MSL. Terrain 4039' from DER, 143' left of centerline, up to 5975' MSL. Terrain beginning 4037' from DER, 144' left of centerline, up to 5975' MSL. Terrain 4034' from DER, 147' right of centerline, up to 5975' MSL. Terrain beginning 3979' from DER, 143' left of centerline, up to 5975' MSL. Terrain beginning 3955' from DER, 146' right of centerline, up to 5975' MSL. Terrain beginning 3872' from DER, 147' right of centerline, up to 5975' MSL. Terrain beginning 3816' from DER, 149' left of centerline, up to 5975' MSL. Terrain beginning 3816' from DER, 150' left of centerline, up to 5975' MSL. Terrain beginning 3790' from DER, 152' left of centerline, up to 5975' MSL. Terrain beginning 3774' from DER, 154' left of centerline, up to 5975' MSL. Terrain beginning 3759' from DER, 156' right of centerline, up to 5975' MSL. Terrain beginning 3744' from DER, 158' left of centerline, up to 5975' MSL. Terrain beginning 3667' from DER, 160' left of centerline, up to 5975' MSL. Terrain beginning 3626' from DER, 163' left of centerline, up to 5975' MSL. Terrain beginning 3582' from DER, 165' left of centerline, up to 5975' MSL. Terrain beginning 3532' from DER, 167' left of centerline, up to 5975' MSL. Terrain beginning 3475' from DER, 170' left of centerline, up to 5975' MSL. Terrain beginning 3410' from DER, 173' left of centerline, up to 5975' MSL. Terrain beginning 3311' from DER, 176' left of centerline, up to 5975' MSL. Terrain beginning 3225' from DER, 179' left of centerline, up to 5975' MSL. Terrain beginning 3105' from DER, 182' left of centerline, up to 5975' MSL. Terrain beginning 2970' from DER, 185' left of centerline, up to 5975' MSL. Terrain beginning 2875' from DER, 188' left of centerline, up to 5975' MSL. Terrain beginning 2776' from DER, 191' left of centerline, up to 5975' MSL. Terrain beginning 2721' from DER, 194' left of centerline, up to 5975' MSL. Terrain beginning 2670' from DER, 197' left of centerline, up to 5975' MSL. Terrain beginning 2610' from DER, 200' left of centerline, up to 5975' MSL. Terrain beginning 2531' from DER, 203' left of centerline, up to 5975' MSL. Terrain beginning 2440' from DER, 206' left of centerline, up to 5975' MSL. Terrain beginning 2386' from DER, 209' left of centerline, up to 5975' MSL. Terrain beginning 2319' from DER, 212' left of centerline, up to 5975' MSL. Terrain beginning 2256' from DER, 215' left of centerline, up to 5975' MSL. Terrain beginning 2191' from DER, 218' left of centerline, up to 5975' MSL. Terrain beginning 2127' from DER, 221' left of centerline, up to 5975' MSL. Terrain beginning 2061' from DER, 224' left of centerline, up to 5975' MSL. Terrain beginning 1993' from DER, 227' left of centerline, up to 5975' MSL. Terrain beginning 1922' from DER, 230' left of centerline, up to 5975' MSL. Terrain beginning 1851' from DER, 233' left of centerline, up to 5975' MSL. Terrain beginning 1780' from DER, 236' left of centerline, up to 5975' MSL. Terrain beginning 1706' from DER, 239' left of centerline, up to 5975' MSL. Terrain beginning 1630' from DER, 242' left of centerline, up to 5975' MSL. Terrain beginning 1553' from DER, 245' left of centerline, up to 5975' MSL. Terrain beginning 1474' from DER, 247' left of centerline, up to 5975' MSL. Terrain beginning 1394' from DER, 250' left of centerline, up to 5975' MSL. Terrain beginning 1311' from DER, 252' left of centerline, up to 5975' MSL. Terrain beginning 1225' from DER, 255' left of centerline, up to 5975' MSL. Terrain beginning 1136' from DER, 258' left of centerline, up to 5975' MSL. Terrain beginning 1044' from DER, 260' left of centerline, up to 5975' MSL. Terrain beginning 950' from DER, 263' left of centerline, up to 5975' MSL. Terrain beginning 853' from DER, 265' left of centerline, up to 5975' MSL. Terrain beginning 753' from DER, 268' left of centerline, up to 5975' MSL. Terrain beginning 650' from DER, 271' left of centerline, up to 5975' MSL. Terrain beginning 545' from DER, 274' left of centerline, up to 5975' MSL. Terrain beginning 438' from DER, 277' left of centerline, up to 5975' MSL. Terrain beginning 330' from DER, 280' left of centerline, up to 5975' MSL. Terrain beginning 221' from DER, 283' left of centerline, up to 5975' MSL. Terrain beginning 112' from DER, 286' left of centerline, up to 5975' MSL. Terrain beginning 3' from DER, 289' left of centerline, up to 5975' MSL. Terrain beginning 26' from DER, 292' left of centerline, up to 5975' M DIVERSE VECTOR AREA (RADAR VECTORS)
BEAVERTON, OR (CON’T)
BEAVERTON MUNI (U17) (CON’T)
Rwy 13 (CON’T), terrain beginning 1.8 NM from DER, 1593’ left of centerline, up to 6395’ MSL. Terrain beginning 1.8 NM from DER, 835’ right of centerline, up to 6359’ MSL. Terrain beginning 1.9 NM from DER, 1795’ left of centerline, up to 6408’ MSL. Terrain beginning 1.9 NM from DER, 1269’ left of centerline, up to 6421’ MSL. Terrain beginning 2 NM from DER, 1310’ left of centerline, up to 6441’ MSL. Terrain beginning 2 NM from DER, 664’ left of centerline, up to 6447’ MSL.

BLANDING, UT
BLANDING MUNI (BDG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 14037 (FAA)
TAKEOFF MINIMUMS: Rwy 35, 800-1 or std. with a min. climb of 350 feet per NM to 6700.
DEPARTURE PROCEDURE: Rwy 17, turn left, thence...
...climb to 9000 on heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.
Rwy 35, turn right climb to 9000 via heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

BRIGHAM CITY, UT
BRIGHAM CITY RGNL (BMC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6B 18088 (FAA)
TAKEOFF MINIMUMS: Rwy 35, NA
DEPARTURE PROCEDURE: Rwy 17, climbing right turn heading 207° and OGD R-331 to OGD VORTAC before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 17, poles 266’ from DER, 558’ right of centerline, 30’ AGL/4258’ MSL.

BRYCE CANYON, UT
BRYCE CANYON (BCE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11069 (FAA)
DEPARTURE PROCEDURE: use BRYCE DEPARTURE.

BULLHEAD CITY, AZ
LAUGHLIN/BULLHEAD INTL (IFP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 17061 (FAA)
TAKEOFF MINIMUMS: Rwy 16, standard w/min. climb of 285’ per NM to 1700, or 1700-3 for VCOA. Rwy 34, standard w/min. climb of 500’ per NM to 5500, or 1700-3 for VCOA.
DEPARTURE PROCEDURE: Rwy 16, climb on heading 164° and EED VORTAC R-331 to EED VORTAC.
Rwy 34, climb on heading 344° to 2200, then climbing right turn direct EED VORTAC. All aircraft climb in EED VORTAC holding pattern (E, right turns, 257’ inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

BULLHEAD CITY, AZ (CON’T)
LAUGHLIN/BULLHEAD INTL (IFP) (CON’T)
VCOA: Rwy 16, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing on heading 155 and EED VORTAC R-335 to EED VORTAC. Rwy 34, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Laughlin/ Bullhead Intl airport at or above 2300, then continue climbing on heading 155 and EED VORTAC R-335 to EED VORTAC.
TAKEOFF OBSTACLE NOTES: Rwy 16, 168’ from DER, 833’ left of centerline, 715’ MSL. Bush 349’ from DER, 516’ right of centerline, 722’ MSL. Grd 390’ from DER, 528’ left of centerline, 719’ MSL. Grd beginning 484’ from DER, 481’ left of centerline, up to 723’ MSL. Bush 532’ from DER, 642’ right of centerline, 727’ MSL. Grd beginning 566’ from DER, 490’ left of centerline, up to 727’ MSL. Bush 700’ from DER, 663’ right of centerline, 728’ MSL. Grd 798’ from DER, 486’ left of centerline, beginning 801’ from DER, 541’ left of centerline, up to 734’ MSL. Tree, bush, grd beginning 910’ from DER, 557’ left of centerline, up to 745’ MSL. Bush, grd beginning 1103’ from DER, from 204’ right to 1006’ left of centerline, up to 777’ MSL. Grd, bush beginning 2134’ from DER, 731’ left of centerline, up to 778’ MSL. Grd, bush beginning 2214’ from DER, 870’ left of centerline, up to 786’ MSL. Grd beginning 2288’ from DER, 801’ left of centerline, up to 792’ MSL. Grd, tree beginning 2328’ from DER, 724’ left of centerline, up to 797’ MSL. Grd beginning 2811’ from DER, 1128’ left of centerline, up to 798’ MSL. Grd beginning 2915’ from DER, 1166’ left of centerline, up to 800’ MSL. Grd beginning 3022’ from DER, 1185’ left of centerline, up to 804’ MSL. Grd, beginning 3123’ from DER, 1221’ left of centerline, up to 809’ MSL. Grd beginning 3219’ from DER, 1257’ left of centerline, up to 814’ MSL. Grd, beginning 3325’ from DER, 1284’ left of centerline, up to 818’ MSL. Grd beginning 3428’ from DER, 1210’ left of centerline, up to 821’ MSL. Grd beginning 3528’ from DER, 1241’ left of centerline, up to 828’ MSL. Grd, bush, tank beginning 3632’ from DER, 1157’ left of centerline, up to 825’ MSL. Tank 4810’ from DER, 1528’ left of centerline, 848’ MSL. Grd 5412’ from DER, 1872’ left of centerline, 852’ MSL. Grd, bushes beginning 5511’ from DER, 926’ left of centerline, up to 865’ MSL. Bushes, beginning 5742’ from DER, 1483’ left of centerline, up to 883’ MSL. Grd, bushes beginning 5774’ from DER, 793’ left of centerline, up to 891’ MSL. Bush 5852’ from DER, 1933’ left of centerline, 904’ MSL. Grd, pole, bushes beginning 5856’ from DER, 24’ left of centerline, up to 920’ MSL. Trees, bushes, grd, tank beginning 1.2 NM from DER, left and right of centerline, up to 962’ MSL. Trees, bushes, grd beginning 1.3 NM from DER, 1’ left of centerline, up to 985’ MSL. Bush 1.4 NM from DER, 1941’ left of centerline, 993’ MSL. Bushes, grd, tank, pole beginning 1.5 NM from DER, 1919’ left of centerline, up to 1036’ MSL. Bushes, vehicles on road, trees, pole beginning 1.9 NM from DER, 2218’ left of centerline, up to 1086’ MSL. Tanks, bushes, pole beginning 2.2 NM from DER, 3103’ left of centerline, up to 1121’ MSL. Rwy 34, airfield light 40’ from DER, 148’ right of centerline, 627’ MSL. T-l twr, tree beginning 1818’ from DER, 620’ right of centerline, up to 65’ AGL/687’ MSL. Pole, tree beginning 2214’ from DER, 629’ right of centerline, up to 709’ MSL. Pole, tree beginning 2638’ from DER, 646’ right of centerline, up to 719’ MSL. Pole, bushes, grd beginning 3054’ from DER, 663’ right of centerline, up to 741’ MSL. Pole, bush, bldg, grd, vehicles on road beginning 3661’ from DER, 691’ right of centerline, up to 773’ MSL. CON’T
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BULLHEAD CITY, AZ (CON’T)
LAUGHLIN/BULLHEAD INTL (IFP) (CON’T)
Rwy 34 (CON’T), poles, bushes, grd, vehicles on road, trees, blgs, flagpole beginning 402'4 from DER, 705' right of centerline, up to 796' MSL. Comm twr 5197' from DER, 1015' right of centerline, 816' MSL. Comm twr 5278' from DER, 1149' right of centerline, 821' MSL. T-1 twr 1.6 NM from DER, 719' left of centerline, 894' MSL. Grd beginning 1.8 NM from DER, 3419' right of centerline, up to 963' MSL. Grd 2.1 NM from DER, 3212' right of centerline, 1018' MSL. Grd, tree beginning 2.2 NM from DER, 1351' right of centerline, up to 1070' MSL. Grd 2.6 NM from DER 3025' right of centerline, 2010' MSL.

CARSON CITY, NV
CARSON (CXP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08325 (FAA)
TAKEOFF MINIMUMS: Rw 27, NA-obstacles. DEPARTURE PROCEDURE: Rw 9, use JIMPA DEPARTURE.

CASA GRANDE, AZ
CASA GRANDE MUNI (CGZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1B 14037 (FAA)
TAKEOFF MINIMUMS: Rw 5, 300-1 or std. w/min. climb of 354' per NM to 1700. DEPARTURE PROCEDURE: Rw 5, climbing right turn direct TFD VORTAC, thence... Rw 23, climb direct TFD VORTAC, thence... ...continue climb in holding pattern (SW, right turns, 048° inbound) to MEA for direction of flight. TAKEOFF OBSTACLE NOTES: Rw 5, pole 4034' from DER, 805' left of centerline, 109' AGL/1593' MSL.

CEDAR CITY, UT
CEDAR CITY RGNL (CDC) (CON’T)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 17229 (FAA)
TAKEOFF MINIMUMS: Rw 8, 4200-3 for VCOA. Rw 20, std. w/min. climb of 290' per NM to 7300 or 4200-3 for VCOA. Rw 26, std. w/min. climb of 255' per NM to 7000 or 4200-3 for VCOA. DEPARTURE PROCEDURE: Rwys 2, 8, 26, climbing left turn direct EHK VOR/DME, thence... Rwys 20, 26, climbing right turn direct EHK VOR/DME, thence... ...continue climb on EHK VOR/DME R-278 until reaching the MEA/MCA for direction of flight. VCOA: Rwys 8, 20, 26, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Cedar City Rgnl airport at or above 9700, then proceed on EHK VOR/DME R-180 direct EHK VOR/DME, then on EHK VOR/DME R-278 until reaching the MEA/MCA for direction of flight. TAKEOFF OBSTACLE NOTES: Rw 2, sign abeam DER, 313' right of centerline, 3' AGL/5604' MSL. Terrain and bush beginning 145' from DER, 420' right of centerline, up to 5608' MSL. Rw 8, terrain 3' from DER, 112' right of centerline, 5622' MSL. Terrain 18' from DER, 221' right of centerline, 5623' MSL. Terrain beginning 30' from DER, 178' right of centerline, up to 5624' MSL. Terrain 122' from DER, 473' right of centerline, 5626' MSL.

CEDAR CITY, UT (CON’T)
CEDAR CITY RGNL (CDC) (CON’T)
Rwy 8 (CON’T), Bush 125' from DER, 234' left of centerline, 5628' MSL. Terrain 193' from DER, 491' right of centerline, 5627' MSL. Fence and vehicles on road beginning 836' from DER, 33' right of centerline, up to 10' AGL/5639' MSL. Vehicles on road 686' from DER, 136' right of centerline, 5640' MSL. Vehicles on road 701' from DER, 242' right of centerline, 5641' MSL. Transmission tower 2865' from DER, 369' right of centerline, 51' AGL/5707' MSL. Transmission tower 2902' from DER, 260' right of centerline, 53' AGL/5710' MSL. Pole and transmission towers beginning 2299' from DER, 70' right of centerline, up to 62' AGL/5718' MSL. Transmission towers beginning 3004' from DER, 39' left of centerline, up to 49' AGL/5705' MSL. Pole 3175' from DER, 564' left of centerline, 56' AGL/5710' MSL. Rw 20, runway light 10' from DER, 54' right of centerline, 2' AGL/5579' MSL. Terrain 12' from DER, 98' left of centerline. Trees 5579' MSL. Runway light and sign climbing 31' from DER, 275' left of centerline, up to 3' AGL/5583' MSL. Pole 941' from DER, 446' right of centerline, 34' AGL/5604' MSL. Pole 1066' from DER, 363' right of centerline, 38' AGL/5608' MSL. Elevator and tank beginning 2081' from DER, 1051' left of centerline, up to 105' AGL/5690' MSL. Tree 3789' from DER, 1512' left of centerline, 5692' MSL. Tree 4004' from DER, 1526' left of centerline, 5693' MSL. Tree 4265' from DER, 1530' left of centerline, 5718' MSL. Trees beginning 4278' from DER, 1546' left of centerline, up to 5721' MSL. Trees beginning 4526' from DER, 1533' left of centerline, up to 5733' MSL. Trees beginning 4858' from DER, 1520' left of centerline, up to 5737' MSL. Tree 5456' from DER, 1835' left of centerline, 5748' MSL. Building and tree beginning 5497' from DER, 1518' left of centerline, up to 21' AGL/5759' MSL. Pole and tree beginning 5737' from DER, 1543' left of centerline, up to 20' AGL/5769' MSL. Pole and tree beginning 5964' from DER, 1545' left of centerline, up to 20' AGL/5779' MSL. Trees beginning 1 NM from DER, 1665' left of centerline, up to 5783' MSL. Tree 1.2 NM from DER, 2080' left of centerline, 5800' MSL. Tree beginning 5.1 NM from DER, 2049' left of centerline, up to 5814' MSL. Trees beginning 1.3 NM from DER, 2107' left of centerline, up to 5836' MSL. Trees beginning 1.3 NM from DER, 2244' left of centerline, up to 5840' MSL. Trees beginning 1.3 NM from DER, 2048' left of centerline, up to 5849' MSL. Trees beginning 1.3 NM from DER, 2283' left of centerline, up to 5852' MSL. Terrain 1.4 NM from DER, 2301' left of centerline, up to 5871' MSL. Tree 1.4 NM from DER, 2599' left of centerline, 5874' MSL. Trees beginning 1.4 NM from DER, 2436' left of centerline, up to 5895' MSL. Pole and tree beginning 1.6 NM from DER, 2822' left of centerline, up to 50' AGL/5944' MSL. Pole 2.3 NM from DER, 3922' left of centerline, 34' AGL/5952' MSL. Rw 26, sign 71' from DER, 167' right of centerline, 6' AGL/5584' MSL. Pole 1375' from DER, 319' left of centerline, 44' AGL/5614' MSL.
CHANDLER, AZ
CHANDLER MUNI (CHD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14261 (FAA)
DEPARTURE PROCEDURE: Rwys 4L, 4R, climbing left turn heading 220° to intercept TFD VORTAC R-350 southbound to TFD VORTAC. Rwys 22L, 22R, climbing left turn heading 190° to intercept TFD VORTAC R-350 southbound to TFD VORTAC.
TAKEOFF OBSTACLE NOTES: Rw 4L, antenna on building 69' from DER, 515' left of centerline, 25' AGL/1281' MSL. Tower 988' from DER, 615' left of centerline, 25' AGL/1281' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 15232 (FAA)
Rwys 4L, 4R, 22L, 22R, heading as assigned by ATC.

CHANDLER, AZ (CON’T)
 STELLAR AIRPARK (P19)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 18340 (FAA)
DEPARTURE PROCEDURE: Rwy 17, climbing left turn heading 150° thence... Rwy 35, climbing right turn heading 190° thence...

COLORADO CITY, AZ
COLORADO CITY MUNI (AZC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 19003 (FAA)
TAKEOFF MINIMUMS: Rwy 2, NA-Terrain. Rwy 20, 300-2¼ or std. w/min. climb of 203' per NM to 5300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1200' prior to DER.
DEPARTURE PROCEDURE: Rwy 11, climbing right turn, thence... Rwy 20, climbing left turn, thence... Rwy 29, climbing left turn, thence...

COOLIDGE, AZ
COOLIDGE MUNI (P08)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 96284 (FAA)
DEPARTURE PROCEDURE: Rwys 5, 35, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course. Rwy 17, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course. Rwy 23, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

COTTONWOOD, AZ
COTTONWOOD (P52)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 16147 (FAA)
DEPARTURE PROCEDURE: Use MINGY DEPARTURE.

CLIFTON/MORENCI, AZ
GREENLEE COUNTY (CFT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10210 (FAA)
DEPARTURE PROCEDURE: Use SAN SIMON DEPARTURE.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

DAVIS-MONTHAN AFB (KDMA)
TUCSON, AZ
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 19227
TAKEOFF MINIMUMS: Rwy 12, 5300-3, or std w/min climb of 240’/NM to 3200.
DEPARTURE PROCEDURE: Rwy 12, climb to 10,000 on track 125°, intercept DMA R-120 for RADAR vectors. Rwy 30, climb to 6500 on track 305°, intercept DMA R-312 for RADAR vectors.
TAKEOFF OBSTACLE NOTES: Rwy 12, terrain 8’ from DER, 2707’ MSL. Terrain 0’ from DER, 500’ left of centerline, 2707’ MSL. Aircraft tail 81’ from DER, 2707’ MSL. Pole 3511’ from DER, 2707’ MSL. Vehicle 1710’ from DER, 2707’ MSL. Vehicle 1498’ from DER, 2707’ MSL.

DOUGLAS BISBEE, AZ
BISBEE- DOUGLAS INTL (DUG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12040 (FAA)
DEPARTURE PROCEDURE: Rwys 8, 17, climbing right turn on heading 330° to intercept DUG VORTAC R-286 to 9500. Rwy 26, climbing right turn to intercept DUG VORTAC R-286 to 9700.
TAKEOFF OBSTACLE NOTES: Rwys 8, 17, terrain beginning 145’ from DER, 51’ left of centerline, up to 8’ AGL/4220’ MSL. Trees and terrain beginning 22’ from DER, 247’ right of centerline, up to 13’ AGL/4197’ MSL.

DELTA, UT
DELTAs MUNI (DTA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
DEPARTURE PROCEDURE:
Rwys 8, 17, climbing right turn on heading 330° to intercept DUG VORTAC R-286 to 9500.
Rwys 26, climbing right turn to intercept DUG VORTAC R-286 to 9600.
TAKEOFF OBSTACLE NOTES: Rwys 8, 17, terrain beginning 145’ from DER, 51’ left of centerline, up to 8’ AGL/4220’ MSL. Trees and terrain beginning 22’ from DER, 247’ right of centerline, up to 13’ AGL/4197’ MSL.

DUCHESNE, UT
DUCHESNE MUNI (U69)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-B 19115 (FAA)
DEPARTURE PROCEDURE: Climb direct to MTU VOR/DME to depart at or above 7200 eastbound or 10000 westbound.
ELKO, NV
ELKO RGNL (EKO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 16147 (FAA)
TAKEOFF MINIMUMS: Rwys 12, 30, NA-ATC. Rw 6, std. w/min. climb of 500' per NM to 7200, or 2000-3 for climb in visual conditions. Rw 24, std. w/min. climb of 390' per NM to 8400, or 2000-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rw 6, climb heading 057° to 6500, then climbing right turn direct BQU VOR/DME, thence... Rw 24, climb heading 237° to 6100, then climbing left turn direct BQU VOR/DME, thence.... Continue climb in BQU VOR/DME holding pattern (hold south, left turns, 340° inbound) to cross BQU VOR/DME at or above MEA/MCA for route of flight.

ELY, NV
ELY AIRPORT-YELLAND FIELD (ELY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 11181 (FAA)
DEPARTURE PROCEDURE: Use ELY DEPARTURE.

EUREKA, NV
EUREKA (05U)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13234 (FAA)
TAKEOFF MINIMUMS: Rw 18, NA-Terrain. DEPARTURE PROCEDURE: use MINES (RNAV) DEPARTURE.

FALLON, NV
FALLON MUNI (FLX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 19171 (FAA)
TAKEOFF MINIMUMS: Rwys 13, 31, NA - Environmental DEPARTURE PROCEDURE: Rw 3, climbing left turn, thence... Rw 21, climbing right turn, thence... to 9300 direct HZN VORTAC, continue climb in HZN VORTAC holding pattern (hold west, left turn 075° inbound) across HZN VORTAC at or above 9300 before proceeding on course, continue climb to MEA or assigned altitude.
TAKEOFF OBSTACLE NOTES: Rw 3, sign, trees beginning 9' from DER, 37' left of centerline, up to 5' AGL/3966' MSL. Tree 121' from DER, 173' right of centerline, 3966' MSL. Traverse way beginning 134' from DER, 357' right of centerline, up to 3972' MSL. Trees beginning 146' from DER, 469' left of centerline, up to 6' AGL/3969' MSL. Traverse way, tree beginning 315' from DER, 232' right of centerline, up to 3974' MSL. Tree 1068' from DER, 199' left of centerline, 37° AGL/3995' MSL. Trees beginning 1086' from DER, 208' left of centerline, up to 4002' MSL. Tree 1093' from DER, 193' right of centerline, 38° AGL/3992' MSL. Trees, pole beginning 1214' from DER, 306' left of centerline, up to 61° AGL/4018' MSL. Trees beginning 2148' from DER, 819' left of centerline, up to 4023' MSL. Tree 2319' from DER, 783' left of centerline, 58° AGL/4024' MSL. Trees beginning 2960' from DER, 663' left of centerline, up to 97° AGL/4054' MSL. Rw 21, trees, terrain beginning 31' from DER, 150' left of centerline, up to 3969' MSL. Traverse way 32' from DER, 497' right of centerline, 3981' MSL. Pole 112' from DER, 397' right of centerline, 26° AGL/3991' MSL. Tree 139' from DER, 401' left of centerline, 4° AGL/3970' MSL. Poles, traverse way, vegetation, building beginning 149' from DER, 19° right of centerline, up to 36° AGL/4002' MSL. Traverse way beginning 380' from DER, 308' left of centerline, up to 3984' MSL. Traverse way beginning 525' from DER, 22° left of centerline, up to 3985' MSL. Tree 1286' from DER, 785' right of centerline, 48° AGL/4016' MSL. Tree 1407' from DER, 840' right of centerline, 57° AGL/4025' MSL. Pole 1813' from DER, 798' left of centerline, 39° AGL/4013' MSL. Tree 1896' from DER, 869' right of centerline, 76° AGL/4040' MSL.

FALLON NAS (VAN VOORHIS FIELD) (KNFL)
FALLON, NV
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 19003
TAKEOFF MINIMUMS: Rwys 13L/R, diverse departures authorized 131° CW 311°, std. w/min climb rate of 245'/NM to 7200. Rwys 31L/R, diverse departures authorized 131° CW 083°, std. w/min climb rate of 252'/NM to 9800. Rw 7, diverse departures authorized, std. w/min climb rate of 295/NM to 12200. Rw 25, diverse departures authorized 132° CW 073°, std. w/min climb rate of 250/NM to 12200.
FILLMORE, UT
FILLMORE MUNI (FOM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10322 (FAA)
TAKEOFF MINIMUMS: Rwy 4, std. w/min. climb of 250' per NM to 6200, or 1800-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 4, climbing left turn to 9600 on DTA R-141 to DTA VORTAC, climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight or for climb in visual conditions crossed Fillmore Muni airport Northwest bound at or above 6600, then climb to 9600 on DTA R-146 to DTA VORTAC. Continue climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight. Rwy 22, climbing right turn to 9600 on DTA R-152 to DTA VORTAC, climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight.
TAKEOFF OBSTACLE NOTES: Rwy 4, light 60' from DER, 393' left of centerline, 8' AGL/4987' MSL. Windsock 129' from DER, 301' left of centerline, 21' AGL/5000' MSL. Rising terrain 132' from DER, 385' right of centerline, 4989' MSL. Fence beginning 138' from DER, 174' right of centerline, up to 15' AGL/4996' MSL. Buildings beginning 259' from DER, 455' right of centerline, up to 174' AGL/5031' MSL. Trees beginning 333' from DER, 242' left of centerline, up to 37' AGL/5034' MSL. Vehicle on road beginning 472' from DER, 608' left to 1093' right of centerline, up to 35' AGL/5073' MSL. Pole 488' from DER, 620' left of centerline, 36' AGL/5037' MSL. Windmeter, 623' from DER, 342' left of centerline, 9' AGL/5008' MSL. Building 873' from DER, 196' left of centerline, 17' AGL/5016' MSL. Rwy 22, fence 97' from DER, 302' left of centerline, 15' AGL/4916' MSL. Vehicle on road beginning 228' from DER, 398' left of centerline, up to 9' AGL/4928' MSL.

FLAGSTAFF, AZ
FLAGSTAFF PULLIAM (FLG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 14037 (FAA)
DEPARTURE PROCEDURE: Rwy 3, turn right. Rwy 21, turn left. Aircraft departing FLG R-160 CW R-175 CW outbound. All others climb southbound on FLG R-172 to 9000, then climbing left turn direct FLG VOR/DME.
TAKEOFF OBSTACLE NOTES: Rwy 21, trees beginning 73' from DER, left and right of centerline, up to 85' AGL/7065' MSL.

FORT HUACHUCA SIERRA VISTA, AZ
SIERRA VISTA MUNI-LIBBY AAF (FHU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 18256 (FAA)
TAKEOFF MINIMUMS: Rwy 21, NA-terrain. Rwy 26, std. w/min. climb of 335' per NM to 7300', or 2800-3 for VCOA
DEPARTURE PROCEDURE: Rwy 3, 8, 12, climbing left turn... thence. Rwy 26, 30, climbing right turn... thence... all aircraft, intercept FHU VOR/DME R-021 to TOMBS INT/FHU 12.76 DME, continue climb in TOMBS holding pattern (hold north, left turns, 201' inbound) to 9500 before proceeding on course.
VCOA: Rwy 26, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sierra Vista Muni-Libby AAF airport at or above 7400' MSL then intercept and proceed on FHU VOR/DME R-021 to TOMBS INT/FHU 12.76 DME. Continue climb in TOMBS holding pattern (hold north, left turns, 201’ inbound) to 9500 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 3, trees 253' from DER, 130' left of centerline, 10' AGL/4596' MSL. Tree 199' from DER, 271' right of centerline, 10' AGL/4596' MSL. Rwy 8, reflector, 121' from DER, 174' right of centerline, 4' AGL/4603' MSL. Rwy 12, terrain beginning 22' from DER, 93' right of centerline, up to 4639' MSL. Rwy 26, general utility 100' from DER, 173' right of centerline, 20' AGL/4723' MSL. General utility 101' from DER, 175' left of centerline, 26' AGL/4730' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 14317 (FAA)
Rwy 3,12, heading as assigned by ATC. Rwy 8, heading as assigned by ATC. Requires minimum climb of 300' per NM to 8600. Rwy 26, heading as assigned by ATC. Requires minimum climb of 300' per NM to 8100. Rwy 30, heading as assigned by ATC. Requires minimum climb of 300' per NM to 8700.

GLENDALE, AZ
GLENDALE MUNI (GEU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18144 (FAA)
DEPARTURE PROCEDURE: Use DRAKE (RNAV) DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rwy 1, light on blast fence 4' from DER, 130' left of centerline, up to 10' AGL/1,088' MSL. Trees beginning 124' from DER, left and right of centerline, up to 30' AGL/1,104' MSL. Vehicles beginning 299' from DER, 80' right of centerline, up to 15' AGL/1,091' MSL. Poles and trees beginning 400' from DER, 197' right of centerline, up to 75' AGL/1,144' MSL. Rwy 19, trees beginning 281' from DER, 331' left of centerline, up to 33' AGL/1,060' MSL.

GLOBE, AZ
SAN CARLOS APACHE (P13)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 08101 (FAA)
DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

19227

GOODYEAR, AZ
PHOENIX GOODYEAR (GYR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18144 (FAA)
DEPARTURE PROCEDURE: Use POTER (RNAV) DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rwys 3, poles beginning 159' from DER, 267' right of centerline, up to 47' AGL/1,015' MSL. Building 1512' from DER. 828' right of centerline, 48' AGL/1,014' MSL. Tree 1,957' from DER, 551' right of centerline, up to 49' AGL/1,019' MSL. Rwys 21, transmission tower 2610' from DER, 1,078' left of centerline, 125' AGL/1,047' MSL. Transmission tower 3,190' from DER, 311' left of centerline, 112' AGL/1,031' MSL. Pole 3,193' from DER, 308' left of centerline, 112' AGL/1,030' MSL.
DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 16203 (FAA)
Rwys 3, 21, heading as assigned by ATC.

GRAND CANYON, AZ
GRAND CANYON NATIONAL PARK (GCN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07242 (FAA)
TAKEOFF MINIMUMS: Rwys 3, NA-environmental. DEPARTURE PROCEDURE: Rwys 21, use GRAND DEPARTURE.

VALLE (40G)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14621 (FAA)
DEPARTURE PROCEDURE: Rwys 1, Climb on a heading between 188° CW to 091° from DER. Rwys 19, climb on a heading between 170° CW to 008° from DER.

HAWTHORNE, NV
HAWTHORNE INDUSTRIAL (HTH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17257
TAKEOFF MINIMUMS: Rwys 15, 33, NA – ATC. Rwys 10, 28, 4200 - 3 for VCOA. VCOA: Rwys 10, 28, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Hawthorne Industrial airport at or above 8300 then climb to 11500 on MVA R-251 to MVA VORTAC before proceeding on course. TAKEOFF OBSTACLE NOTES: Rwys 10, ground beginning at DER, 53' right of centerline, up to 4232' MSL. Ground 139' from DER, 39' right of centerline, 4234' MSL. Ground 145' from DER, 387' right of centerline, 4236' MSL. Bush 193' from DER, 480' right of centerline, 2' AGL/4238' MSL. Bush 363' from DER, 576' right of centerline, 3' AGL/4242' MSL. Bush 557' from DER, 555' right of centerline, 1' AGL/4245' MSL. Rwys 28, ground 1' from DER, 388' left of centerline, 4183' MSL. Bush 10' from DER, 488' left of centerline, 2' AGL/4185' MSL.

HEBER, UT
HEBER VALLEY (HCR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 19227 (FAA)
TAKEOFF MINIMUMS: Rwys 4, 22, 5800-5 for VCOA. VCOA NA at night. VCOA: Rwys 4, 22, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Heber Valley airport at or above 11300 before proceeding on course. TAKEOFF OBSTACLE NOTES: Rwys 4, fence abeam DER, 301' left of centerline, 16' AGL/5647' MSL. Pole 24' from DER, 404' left of centerline, up to 33' AGL/5659' MSL. Bush 23' from DER, 61' left of centerline, up to 5639' MSL. Terrain 109' from DER, 428' right of centerline, 5642' MSL. Multiple poles, trees beginning 200' from DER, 269' left of centerline, up to 36' AGL/5666' MSL. Tree, fence beginning 252' from DER, 249' right of centerline, up to 5659' MSL. Pole 319' from DER, 404' left of centerline, up to 5670' MSL. Tree, pole beginning 662' from DER, 404' left of centerline, up to 5681' MSL. Tree, sign, pole beginning 710' from DER, 281' left of centerline, up to 5682' MSL. Building beginning 1066' from DER, 42' right of centerline, up to 5674' MSL. Tree, pole beginning 1120' from DER, 181' right of centerline, up to 5689' MSL. Tree, pole beginning 1281' from DER, 278' right of centerline, up to 5690' MSL. Trees beginning 1773' from DER, 238' left of centerline, up to 5689' MSL. Tree, pole beginning 1901' from DER, 309' right of centerline, up to 5708' MSL. Tree 1909' from DER, 498' left of centerline, 5692' MSL. Rwys 22, pole abeam DER, 292' right of centerline, 16' AGL/5592' MSL. Fence, vegetation, terrain 13' from DER, 225' left of centerline, up to 9' AGL/5597' MSL. Trees beginning 608' from DER, 384' right of centerline, up to 5611' MSL. Pole 829' from DER, 474' left of centerline, 22' AGL/5605' MSL. Pole 988' from DER, 634' left of centerline, up to 33' AGL/5617' MSL. Tree 1672' from DER, 777' left of centerline, 5628' MSL. Terrain beginning 1.1 NM from DER, 1752' left of centerline, up to 5964' MSL. Tree 1.3 NM from DER, 2420' left of centerline, 5821' MSL. Terrain, trees beginning 1.4 NM from DER, 1124' left of centerline, up to 6128' MSL. Terrain, trees beginning 1.5 NM from DER, 372' left of centerline, up to 6411' MSL.

HILL AFB (KHIF)
OGDEN, UT
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
Diverse departures not authorized, use radar vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT
HUNTINGTON MUNI (69V)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2B 18200 (FAA)
TAKEOFF MINIMUMS: Rwys 12, 18, 26, 30, 36, NA-Environmental. DEPARTURE PROCEDURE: Rwys 8, climbing left turn direct PUC VOR/DME. ...continue climb in PUC VOR/ DME holding pattern (hold south, RT, 009° inbound) to MEA for direction of flight. TAKEOFF OBSTACLE NOTES: Rwys 8, tree 2663' from DER, 922' left of centerline, 40' AGL/5979' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

KANAB, UT

KANAB MUNI (KNB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10042 (FAA)

TAKEOFF MINIMUMS: Rw 1, std. with min. climb of 742' per NM to 6600, or 1100-3 with min. climb of 535' per NM to 6900, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: Rw 19, climb heading 171° to 6800 before turning. Rw 1, climb heading 006° to 6100 before turning, or for climb in visual conditions, cross Kanab Muni airport at or above 7100 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 1, vent on building 554' from DER, 370' left of centerline, 16' AGL/4864' MSL. Trees beginning 1138' from DER, 302' left of centerline, up to 100' AGL/5939' MSL. Rising terrain and trees beginning 1.76 NM from DER, 766' left of centerline, up to 100' AGL/5599' MSL. Rising terrain and trees beginning 3.5 NM from DER, left and right of centerline, up to 6359' MSL. Rw 19, trees beginning 271' from DER, 506' right of centerline, up to 100' AGL/4899' MSL.

KINGMAN, AZ

KINGMAN (IGM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12152 (FAA)

TAKEOFF MINIMUMS: Rwys 3,17,21,35, 800-1 or std. with a min. climb of 210' per NM to 7000.

DEPARTURE PROCEDURE: Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. When unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).

LAGUNA AAF (LGF)

YUMA PROVING GROUND, AZ (03247)

Rwy 6, 18, 36, turn right, climb to 3600 direct BZA VORTAC.

Rwy 24, climb to 3600 direct to BZA VORTAC.

TAKEOFF OBSTACLE NOTES: Rw 18, 386' (6' AGL) windsock, 818' from DER, 194' left of centerline.

LAKE HAVASU CITY, AZ

LAKE HAVASU CITY (HII)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12152 (FAA)

TAKEOFF MINIMUMS: Rw 14, std. w/min. climb of 465' per NM to 4800, or 1500-3 for climb in visual conditions. Rw 32, 600-1½ w/min. climb of 492' per NM to 1100, or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: Rw 14, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course or...

Rw 32, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course or...

Rwys 14, 32, ... For climb in visual conditions: cross Lake Havasu City airport northwest bound at or above 2300, then Intercept EED VORTAC R-138 to EED VORTAC. Continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: Rw 14, pole 3327' from DER, 46' right of centerline, 107' AGL/868' MSL. Poles 3468' from DER, 195' left of centerline, up to 107' AGL/950' MSL. Trees/bushes 976' from DER, 380' left of centerline, up to 46' AGL/829' MSL. Terrain 143' from DER, 346' left of centerline, up to 804' MSL. Rw 32, trees 1544' from DER, 416' right of centerline, up to 44' AGL/793' MSL.

LAS VEGAS, NV

HENDERSON EXECUTIVE (HND)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 17173 (FAA)

TAKEOFF MINIMUMS: Rwys 17L/R, standard with minimum climb of 491' per NM to 6000 or 2800-2¾ for VCOA. Rwys 35L/R, standard with minimum climb of 312' per NM to 4700 or 2800-2¾ for VCOA.

DEPARTURE PROCEDURE: Rwys 17L/R, climbing right turn on LAS R-157 to LAS VORTAC before proceeding on course. Rwys 35 L/R, climbing right turn on BLD R-257 to BLD VORTAC before proceeding on course.

VCOA: All Runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Henderson Executive airport eastbound at or above 5100, then proceed on BLD R-249 TO BLD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 17L, terrain beginning 2427’ from DER, 18’ left of centerline, 2552’ MSL. Poles beginning 4256’ from DER, 678’ right of centerline, up to 2598’ MSL. Rw 17R, bush 134’ from DER, 314’ right of centerline, 2498’ MSL. Fence 629’ from DER, 75’ right of centerline, 2510’ MSL. Terrain 928’ from DER, 717’ left of centerline, 2552’ MSL. Tank 1096’ from DER, 311’ right of centerline, 2533’ MSL. Vehicles on road beginning 1149’ from DER, crossing centerline, up to 1159’ MSL. Poles beginning 2756’ from DER, from 400’ left to 698’ right of centerline, up to 2764’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

LAS VEGAS, NV (CON’T)

MCCARRAN INTL (LAS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 17229 (FAA)

TAKEOFF MINIMUMS: Rwys 1L, 300-1 or std. w/min. climb of 269' per NM to 2300. Rwys 19R, std. w/min. climb of 256' per NM to 3400. Rwys 19R std. w/min. climb of 242' per NM to 3400. Rwys 26L, 300-2½ or std. w/min. climb of 214' per NM to 2400. Rwys 26R, 400-2½ or std. w/min. climb of 270' per NM to 2400.

DEPARTURE PROCEDURE: Rwys 1L/R, Climbing right turn direct BLD VORTAC before proceeding on course. Rwys 8L/R, Climbing left turn direct BLD VORTAC before proceeding on course. Rwys 19L/R, Climbing heading 194° to 2800, then climbing left turn heading 120° and BLD R-257 to BLD VORTAC before proceeding on course. Rwys 26L/R, Climbing heading 259° to 2800, then climbing right turn direct BLD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rwys 1L, REIL 23’ from DER, 153’ left of centerline, 3’ AGL/2090’ MSL. Sign 1037’ from DER, 695’ left of centerline, 41’ AGL/2125’ MSL. Building 1556’ from DER, 552’ left of centerline, 2129’ MSL. Building 1779’ from DER, 649’ left of centerline, 2147’ MSL. Buildings beginning 1907’ from DER, 166’ left of centerline, up to 2150’ MSL. Buildings beginning 1901’ from DER, 168’ left of centerline, up to 2150’ MSL. Buildings beginning 2095’ from DER, 275’ left of centerline, up to 83’ AGL/2153’ MSL. Buildings beginning 3953’ from DER, 1397’ left of centerline, up to 162’ AGL/2226’ MSL. Building 4126’ from DER, 1090’ left of centerline, 2229’ MSL. Building 4542’ from DER, 1400’ left of centerline, 183’ AGL/2240’ MSL. Building 4604’ from DER, 1376’ left of centerline, 186’ AGL/2243’ MSL. Rwys 1L, building 609’ from DER, 538’ right of centerline, 28’ AGL/2095’ MSL. Sign 1336 from DER, 447’ right of centerline, 60’ AGL/2122’ MSL. Rwys 8L, pole 744’ from DER, 442’ right of centerline, 30’ AGL/2057’ MSL. Tree 758’ from DER, 168’ right of centerline, 2068’ MSL. Tree 767’ from DER, 589’ left of centerline, 2067’ MSL. Tree 850’ from DER, 184’ left of centerline, 2067’ MSL. Trees beginning 886’ from DER, 371’ right of centerline, up to 2074’ MSL. Rwys 19L, building 1571’ from DER, 820’ right of centerline, 164’ AGL/2243’ MSL. Rwys 19L, railroad, pole beginning 952’ from DER, 322’ left of centerline, up to 2215’ MSL. Railroad 1043’ from DER, 178’ left of centerline, 2218’ MSL. Railroad, pole beginning 1122’ from DER, 19’ left of centerline, up to 2219’ MSL. Railroad 1166’ from DER, 75’ right of centerline, 2220’ MSL. Railroad 1219’ from DER, 235’ right of centerline, 2222’ MSL. Railroad 1230’ from DER, 281’ right of centerline, 2223’ MSL. Pole 1234’ from DER, 178’ left of centerline, 2221’ MSL. Railroad 1241’ from DER, 351’ right of centerline, 2224’ MSL. Railroad 1246’ from DER, 489’ left of centerline, 2225’ MSL. Railroad, pole beginning 1247’ from DER, 11’ right of centerline, up to 2226’ MSL. Poles, tree, vehicles on road, sign, parking lot beginning 1392’ from DER, 115’ right of centerline, up to 36’ AGL/2238’ MSL. Tree, pole beginning 1410’ from DER, 9’ left of centerline, up to 2232’ MSL. Tree 1819’ from DER, 124’ left of centerline, 2236’ MSL. Pole, tree, vehicles on road beginning 1824’ from DER, 9’ right of centerline, up to 34’ AGL/2242’ MSL. Pole 1933’ from DER, 823’ right of centerline, 34’ AGL/2243’ MSL. Pole, tree beginning 1936’ from DER, 55’ right of centerline, up to 36’ AGL/2245’ MSL.
LAS VEGAS, NV (CON’T)
MCCARRAN INTL (LAS) (CON’T)

Rwy 19R (CON’T), Pole, tree beginning 2036’ from DER, 5’ left of centerline, up to 35’ AGL/2246’ MSL.
Poles, building, tree beginning 2043’ from DER, 221’ right of centerline, up to 35’ AGL/2255’ MSL.
Tree, pole, pole beginning 2213’ from DER, 19’ left of centerline, up to 36’ AGL/2247’ MSL.
Tree, poles, sign, building beginning 2146’ from DER, 14’ right of centerline, up to 2259’ MSL.
Pole, building, tree beginning 2234’ from DER, 12’, left of centerline, up to 35’ AGL/2249’ MSL.
Pole, tree beginning 2335’ from DER, 88’ left of centerline, up to 36’ AGL/2251’ MSL.
Building beginning 2451’ from DER, 37’ left of centerline, up to 41’ AGL/2257’ MSL.
Pole, buildings, tree beginning 2496’ from DER, 5’ right of centerline, up to 2274’ MSL.
Building beginning 2739’ from DER, 196’ right of centerline, up to 57’ AGL/2279’ MSL.

Building, tree beginning 2766’ from DER, 73’ right of centerline, up to 57’ AGL/2281’ MSL.
Building beginning 2767’ from DER, 44’ left of centerline, up to 36’ AGL/2258’ MSL.

Building, tree beginning 2822’ from DER, 68’ right of centerline, up to 58’ AGL/2281’ MSL.
Building, tree beginning 2861’ from DER, 126’, right of centerline, up to 59’ AGL/2282’ MSL.

Buildings, tree beginning 2893’ from DER, 6’ right of centerline, up to 2286’ MSL.

Buildings beginning 2895’ from DER, 2’, left of centerline, up to 58’ AGL/2282’ MSL.
Buildings, tree building beginning 3032’ from DER, 301’ right of centerline, up to 61’ AGL/2290’ MSL.

Buildings, tree, pole beginning 3076’ from DER, 58’ right of centerline, up to 61’ AGL/2291’ MSL.
Buildings, sign, poles beginning 3459’ from DER, 287’ right of centerline, up to 74’ AGL/2302’ MSL.

Building 3495’ from DER, 53’ left of centerline, 52’ AGL/2278’ MSL.
Communication tower 5717’ from DER, 156’ left of centerline, 80’ AGL/2327’ MSL.

Rwy 26L, building 1002’ from DER, 250’ left of centerline, 6’ AGL/2183’ MSL.

Railroad, pole beginning 1857’ from DER, 793’ left of centerline, up to 2215’ MSL.

Railroad 2068’ from DER, 796’ left of centerline, 2218’ MSL.
Pole, railroad beginning 2148’ from DER, 800’ left of centerline, up to 2221’ MSL.

Tree, railroad beginning 2367’ from DER, 780’ left of centerline, up to 2232’ MSL.

Tree, railroad beginning 2528’ from DER, 751’ left of centerline, up to 2233’ MSL.
Pole 2861’ from DER, 811’ left of centerline, 36’ AGL/2238’ MSL.
Pole 3167’ from DER, 1144’ left of centerline, 34’ AGL/2242’ MSL.
Pole 3171’ from DER, 1093’ left of centerline, 54’ AGL/2243’ MSL.
Pole 3313’ from DER, 1200’ left of centerline, 35’ AGL/2246’ MSL.
Sign, T-L tower beginning 3672’ from DER, 145’ left of centerline, up to 2256’ MSL.

Pole, building beginning 4233’ from DER, 1389’ left of centerline, up to 2274’ MSL.

Building 4554’ from DER, 1593’ left of centerline, 2277’ MSL.
Building 4687’ from DER, 1685’ left of centerline, 53’ AGL/2293’ MSL.
Building 4719’ from DER, 1754’ left of centerline, 61’ AGL/2290’ MSL.
Building 4954’ from DER, 1694’ left of centerline, 61’ AGL/2291’ MSL.
Transmission tower 5469’ from DER, 1056’ left of centerline, 2297’ MSL.
Pole 5879’ from DER, 1519’ left of centerline, 2309’ MSL.
Pole 6019’ from DER, 2022’ right of centerline, 101’ AGL/2309’ MSL.
Pole 1 NM from DER, 1720’ left of centerline, 46’ AGL/2311’ MSL.
Pole 1 NM from DER, 1922’ left of centerline, 45’ AGL/2311’ MSL.

Tower 1.1 NM from DER, 1843’ left of centerline, 80’ AGL/2332’ MSL.
Pole 1.8 NM from DER, 1817’ left of centerline, 131’ AGL/2435’ MSL.

LAS VEGAS, NV (CON’T)
MCCARRAN INTL (LAS) (CON’T)

Rwy 26R, NAVAIDs, building beginning 533’ from DER, 367’ left of centerline, up to 14’ AGL/2206’ MSL.


NORTH LAS VEGAS (VGT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 18312 (FAA)
DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.
TAKEOFF OBSERVATIONS: Rwy 7, tower 1.1 NM from DER, 1044’ right of centerline, 252’ AGL/2348’ MSL.
Rwy 12R, multiple towers 1.0 NM from DER, 850’ right of centerline, up to 267’ AGL/2368’ MSL.
Rwy 12L, light pole 254’ from DER, 462’ right of centerline, 36’ AGL/2159’ MSL.
Rwy 25, light pole 1447’ from DER, 21’ right of centerline, 35’ AGL/2255’ MSL.

Rwy 30L, multiple towers 1.0 NM from DER, 743’ right of centerline, up to 2826’ MSL.

Rwy 30L, multiple towers 1.0 NM from DER, 743’ right of centerline, up to 2826’ MSL.

Rwy 12L, light pole 1122’ from DER, 963’ right of centerline, traversing to the southeast out to 2345’ right of centerline, traversing to the southeast out to 2345’ from DER, 510’ right of centerline, 106’ AGL/2344’ MSL.
Rwy 12L, light pole 254’ from DER, 462’ right of centerline, 36’ AGL/2159’ MSL.

Rwy 25, light pole 1447’ from DER, 21’ right of centerline, 35’ AGL/2255’ MSL.

Rwy 30L, sign, building, light pole beginning 1692’ from DER, 236’ left of centerline, up to 49’ AGL/2271’ MSL.
Multiple trees beginning 1785’ from DER, 78’ right of centerline, up to 57’ AGL/2296’ MSL.

Tower, microwave towers/antennas beginning 2745’ from DER, 511’ left of centerline, up to 84’ AGL/2397’ MSL.

Rwy 30R, antenna tower 4639’ from DER, 1736’ left of centerline, 84’ AGL/2327’ MSL.

ANAMETER 552’ from DER, 570’ left of centerline, 34’ AGL/2216’ MSL.

VENT ON BUILDING 1632’ from DER, 566’ right of centerline, 58’ AGL/2240’ MSL.
ANAMETER on hangar 2012’ from DER, 195’ right of centerline, 61’ AGL/2247’ MSL.
LOGAN, UT
LOGAN-CACHE (LGU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8 09351 (FAA)
TAKEOFF MINIMUMS: Rwys 10, 28, NA-obstacles.
DEPARTURE PROCEDURE: Rwys 17, 35, use ORNEY DEPARTURE.

LOVELOCK, NV
DERBY FIELD (LOL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 19003 (FAA)
TAKEOFF MINIMUMS:
Rwy 2, std. w/min. climb of 415’ per NM to 8200 or 3200-3 for climb in visual conditions.
Rwys 8, 20, std. w/min. climb of 340’ per NM to 8200 or 3200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwys 2, climb to 6500 then climbing left turn direct LLC VORTAC, thence... Rwys 8, 20, 26, climb to 5700 then climbing left turn direct LLC VORTAC, thence...Climb in LLC VORTAC holding pattern (north, left turn, 169° inbound) to depart LLC VORTAC at or above 8800, continue climb on course to MEA or assigned altitude.
VCOA: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Derby Field Airport at or above 7000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 2, vegetation 13’ from DER, 141’ right of centerline, 3908’ MSL. Sign 17’ from DER, 199’ left of centerline, 2’ AGL/3909’ MSL. Vegetation 54’ from DER, 155’ right of centerline, 3912’ MSL. Tree 80’ from DER, 347’ right of centerline, 3917’ MSL.
Rwy 8, vegetation beginning 56’ from DER, 172’ left of centerline, up to 3910’ MSL. Vegetation 147’ from DER, 376’ left of centerline, 3911’ MSL. Rwy 20, vegetation beginning 47’ from DER, 112’ left of centerline, up to 3910’ MSL. Vegetation 172’ from DER, 376’ left of centerline, 3911’ MSL. Rwy 26, terrain 15’ from DER, 170’ right of centerline, 3905’ MSL. Vegetation 67’ from DER, 239’ left of centerline, 3906’ MSL. Tree 258’ from DER, 531’ left of centerline, 3917’ MSL.

LUKE AFB (KLUF),
GLENDALE, AZ
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 10210 (FAA)
DEPARTURE PROCEDURE: use MESA DEPARTURE.
DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 16007 (FAA)
Rwy 4L, Heading as assigned by ATC; requires minimum climb of 480’ per NM to 3800. Rwy 4R, Heading as assigned by ATC; requires minimum climb of 500’ per NM to 3700. Rwy 22LR, Heading as assigned by ATC.

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

MESQUITE, NV
MESQUITE (67L)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 18256 (FAA)
TAKEOFF MINIMUMS: Rwy 2, 300-2¼ or std. w/min. climb of 455' per NM to 2300'.
DEPARTURE PROCEDURE: Rwy 2, climb heading 018° to 2400 then climbing left turn direct MMM VORTAC, continue climb-in hold (hold S, left turn, 015° inbound) to 11000 before proceeding on course.
Rwy 20, climbing right turn direct MMM VORTAC, continue climb-in hold (hold S, left turn 015° inbound) to 11000 before proceeding on course.
TAKEOFF-obstacle NOTES: Rwy 2, terrain beginning 41' from DER, 227' left of centerline, up to 1992' MSL. Terrain beginning 83' from DER, 456' right of centerline, up to 2000' MSL. Fence, terrain beginning 190' from DER, 211' right of centerline, up to 3' AGL/2005' MSL. Terrain beginning 197' from DER, 213' left of centerline, up to 2006' MSL. Terrain beginning 295' from DER, 222' right of centerline, up to 2006' MSL. Terrain beginning 365' from DER, 225' left of centerline, up to 2019' MSL. Fence beginning 491' from DER, 238' right of centerline, up to 3' AGL/2014' MSL. Terrain 783' from DER, 496' left of centerline, 2026' MSL. Terrain beginning 846' from DER, 254' left of centerline, up to 2031' MSL. Terrain, fence beginning 971' from DER, 272' left of centerline, up to 2036' MSL. Terrain, fence beginning 1176' from DER, 269' left of centerline, up to 2038' MSL. Terrain beginning 1289' from DER, 411' left of centerline, up to 2043' MSL. Terrain beginning 1426' from DER, 647' left of centerline, up to 2048' MSL. Terrain beginning 2059' from DER, 909' left of centerline, up to 2059' MSL. Terrain 2900' from DER, 1201' left of centerline, 2068' MSL. Terrain 3160' from DER, 1131' right of centerline, up to 2098' MSL. Terrain beginning 3268' from DER, 73' right of centerline, up to 2119' MSL. Terrain beginning 3317' from DER, 334' left of centerline, up to 2084' MSL. Terrain beginning 3424' from DER, 674' right of centerline, up to 2139' MSL. Terrain 3429' from DER, 459' right of centerline, 2148' MSL. Terrain beginning 3434' from DER, 1206' left of centerline, up to 2102' MSL. Terrain 3460' from DER, 387' right of centerline, 2152' MSL. Terrain, vegetation beginning 3484' from DER, 10' right of centerline, up to 2156' MSL. Terrain 3794' from DER, 751' left of centerline, 2110' MSL. Terrain beginning 3794' from DER, 163' left of centerline, up to 2118' MSL. Terrain beginning 3903' from DER, 952' left of centerline, up to 2122' MSL. Terrain, vegetation beginning 3911' from DER, 119' left of centerline, up to 2199' MSL. Terrain, vegetation beginning 4387' from DER, 10' left of centerline, up to 2204' MSL. Terrain 1.5 NM from DER, 2409' left of centerline, 2216' MSL. Vegetation 1.5 NM from DER, 2758' left of centerline, 2231' MSL. Terrain beginning 1.5 NM from DER, 2618' left of centerline, up to 2257' MSL. Terrain beginning 1.5 NM from DER, 2769' left of centerline, up to 2259' MSL. Terrain 1.7 NM from DER, 3138' left of centerline, 2244' MSL. Rwy 20, lighting 1' from DER, 46' left of centerline, 2' AGL/1876' MSL. Lighting 3' from DER, 89' right of centerline, 2' AGL/1876' MSL. Traverse way 4' from DER, 365' right of centerline, 1878' MSL. Transmission line 453' from DER, 308' left of centerline, 70' AGL/1888' MSL.

MICHAEL AAF (KDPG), DUGWAY PROVING GROUND, UT
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12236
DEPARTURE PROCEDURE: Rwy 12, climb heading 122° to 5700, then climbing right turn on a heading between 202° CW to 302° to 10,000 before proceeding on course. Rwy 30, climbing left turn on a heading between 267° CW to 300° to 10,000 before proceeding on course.

MILFORD, UT
MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12096 (FAA)
TAKEOFF MINIMUMS: Rwy 34, std. w/min. climb of 487' per NM to 6500 or 1500-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 16, climb direct MLF VORTAC, thence ...
... Aircraft departing on V235 or V21 southbound proceed on course.
... All other aircraft climb to 11000 on MLF VORTAC R-168, then right turn direct MLF VORTAC. Continue climb-in-hold, right turns, 348' inbound to cross MLF VORTAC at or above MEA/MCA for route of flight. Rwy 34, climbing left turn to intercept MLF VORTAC R-310 to MLF VORTAC, thence ... 
... Aircraft departing on V235 or V21 southbound; proceed on course ...
... All other aircraft, climb-in-hold, MLF VORTAC, right turns, 348' inbound to cross MLF VORTAC at or above MEA/MCA for Route of flight ...
... or climb in visual conditions to cross MILF Muni/Ben and Judy Briscoe Field airport southbound at or above 6400, then climb on MLF VORTAC R-345 to MLF VORTAC. Aircraft departing on V235 and V21 southbound; proceed on course. All other aircraft climb to 11000 on MLF VORTAC R-168, then, right turn direct MLF VORTAC. Continue climb-in-hold, right turns, 348' inbound to cross MLF VORTAC at or above MEA/MCA for route of flight ...
TAKEOFF OBSTACLE NOTES: Rwy 16, trees beginning 440' from DER, 332' right of centerline, up to 100' AGL/5159' MSL. Trees beginning 4912' from DER, 1451' right of centerline, up to 100' AGL/5179' MSL. Rwy 34, vehicles on roadway 231' from DER, across centerline, up to 15' AGL/5054' MSL. Trees beginning 3177' from DER, 508' left of centerline, up to 100 AGL/5119' MSL.

MINDEN, NV
MINDEN-TAHOE (MEV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 11349 (FAA)
TAKEOFF MINIMUMS: Rwy 12, 16, 30, NA - Obstacles. DEPARTURE PROCEDURE: Rwy 34, use MINDEN (RNAV) DEPARTURE.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MOAB, UT
CANYONLANDS FIELD (CNY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 19003 (FAA)
TAKEOFF MINIMUMS: Rwys 15, 33, NA - Runway Surface. Rwys 3, std. w/min. climb of 405' per NM to 6100 or 5000-3 for VCOA. Rwys 16, std. w/min. climb of 456' per NM to 6100 or 5000-3 for VCOA.
DEPARTURE PROCEDURE: Rwys 3, climbing left turn from 6700 on OAB R-298, thence... Rwys 21, climbing right turn from 6700 on OAB R-298, thence...
...Climbing right turn to 10000 direct OAB VOR/DME. Continue climb in holding to 10000 at OAB VOR/DME (northwest, left turn, 118° inbound) before proceeding on course.
VCOA: Rwys 3, 21, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Canyonlands Field at or above 9400 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwys 3, terrain 46' from DER, 484' right of centerline, 4559' MSL. Tree 63' from DER, 481' left of centerline, 4564' MSL. Tree 86' from DER, 509' left of centerline, 4565' MSL. Electrical system 135' from DER, 529' right of centerline, 34' AGL/4595' MSL. Transmission line 1108' from DER, 589' right of centerline, 51' AGL/4596' MSL. Transmission line 1786' from DER, 606' left of centerline, 50' AGL/4603' MSL. Terrain 1.5 NM from DER, 1600' right of centerline, 4827' MSL. Terrain 2.5 NM from DER, 1185' left of centerline, 4980' MSL. Rwys 21, bush beginning 60' from DER, 79' left of centerline, up to 10' AGL/4581' MSL. Bush beginning 132' from DER, 65' right of centerline, up to 10' AGL/4597' MSL. Pole 1658' from DER, 128' left of centerline, 85' AGL/4625' MSL. Pole 1710' from DER, 319' right of centerline, 4602' MSL. Pole 1827' from DER, 831' right of centerline, 4623' MSL. Bush 1.5 NM from DER, 2256' left of centerline, 10' AGL/4739' MSL. Bush beginning 1.9 NM from DER, 3289' right of centerline, up to 4868' MSL. Terrain 1.9 NM from DER, 2742' right of centerline, 4899' MSL. Traverse way beginning 2 nm from DER, 39' left of centerline, up to 10' AGL/4984' MSL. Traverse way beginning 2.1 NM from DER, 297' left of centerline, up to 10' AGL/4994' MSL. Trees beginning 2.1 NM from DER, 91' left of centerline, up to 10' AGL/5014' MSL.

NELLIS AFB (KLSV)
LAS VEGAS, NV
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18088
TAKEOFF MINIMUMS: Rwys 3L/R, 3600-3 SR-SS or std with min climb of 285'/NM (Mil) to 6200/325'/NM (Civ) to 6600. Rwys 21L/R, 10,100-3 SR-SS.
DEPARTURE PROCEDURE: Rwys 3L/R, climb hgd 050°. Rwys 21L/R, diverse departure NA.
TAKEOFF OBSTACLE NOTES: Rwys 3L, potential C-5 on taxiway 215° inward of DER, 390' right of centerline, 65' AGL/1934' MSL. Rwys 3R, potential C-5 on taxiway 147° inward of DER, 610' left of centerline, 65' AGL/1934' MSL. Rwys 21L, potential C-5 on taxiway 38' inward of DER, 580' left of centerline, 65' AGL/1890' MSL. Potential C-5 on taxiway 89' inward of DER, 521' right of centerline, 65' AGL/1895' MSL. Trees 1387' from DER, 744' left of centerline, 49' AGL/1871' MSL. Trees 2138' from DER, 478' left of centerline, 44' AGL/1866' MSL. Trees 1022' from DER, 800' left of centerline, 46' AGL/1868' MSL. Rwys 21R, tower 1465' from DER, 1137' right of centerline, 101' AGL/1938' MSL. Potential C-5 on taxiway 89' inward of DER, 454' left of centerline, 65' AGL/1896' MSL. Potential C-130 on taxiway 39' inward of DER, 384' right of centerline, 39' AGL/1877' MSL.
DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG, 17061
Rwys 3L/R, N/A-terrain. Rwys 21L/R, hgd as assigned by ATC; requires min climb of 290 (Mil)/300 (Civ) ft/NM until 14,000.

NEPHI, UT
NEPHI MUNI (U14)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 11293 (FAA)
DEPARTURE PROCEDURE: Use NEPHI DEPARTURE.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

NOGALES, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3  18312 (FAA)

TAKEOFF MINIMUMS: Use NOGALES DEPARTURE.

TAKEOFF OBSTACLE NOTES: Rwy 3, tree 58’ from DER, 455’ left of centerline, 3963’ MSL. Tree 80’ from DER, 174’ right of centerline, 6’ AGL/3958’ MSL. Trees beginning 97’ from DER, 446’ left of centerline, up to 15’ AGL/3964’ MSL. Tree 252’ from DER, 43’ right of centerline, 5’ AGL/3962’ MSL. Tree 261’ from DER, 463’ left of centerline, 3971’ MSL. Trees beginning 308’ from DER, 37’ right of centerline, up to 9’ AGL/3964’ MSL. Trees, fence beginning 334’ from DER, 136’ left of centerline, up to 3987’ MSL. Trees beginning 368’ from DER, 64’ right of centerline, up to 3991’ MSL. Tree, terrain beginning 603’ from DER, 546’ right of centerline, up to 3993’ MSL. Trees, fence, terrain beginning 659’ from DER, 13’ left of centerline, up to 3995’ MSL. Trees, terrain, fence beginning 833’ from DER, 103’ right of centerline, up to 4010’ MSL. Trees, terrain beginning 1179’ from DER, 118’ left of centerline, up to 5’ AGL/3996’ MSL. Terrain beginning 1199’ from DER, 97’ right of centerline, up to 4036’ MSL. Trees, terrain beginning 1241’ from DER, 66’ left of centerline, up to 4018’ MSL. Trees, terrain beginning 1412’ from DER, 90’ right of centerline, up to 4043’ MSL. Traverse way, terrain beginning 1624’ from DER, 642’ left of centerline, up to 4028’ MSL. Terrain beginning 1637’ from DER, 2’ right of centerline, up to 4052’ MSL. Trees, traverse way, terrain beginning 1688’ from DER, 45’ left of centerline, up to 4035’ MSL. Terrain beginning 1825’ from DER, 38’ right of centerline, up to 4067’ MSL. Pole, traverse way, trees beginning 1853’ from DER, 475’ left of centerline, up to 21’ AGL/4043’ MSL. Terrain 2033’ from DER, 186’ left of centerline, 4047’ MSL. Trees, terrain beginning 2041’ from DER, 74’ left of centerline, up to 7’ AGL/4052’ MSL. Terrain 2221’ from DER, 269’ left of centerline, 4055’ MSL. Tree, traverse way, terrain beginning 2253’ from DER, 170’ left of centerline, up to 18’ AGL/4080’ MSL. Terrain beginning 2354’ from DER, 20’ right of centerline, up to 4068’ MSL. Trees, traverse way, pole, terrain beginning 2688’ from DER, 2’ right of centerline, up to 15’ AGL/4096’ MSL. Terrain, traverse way beginning 2768’ from DER, 98’ right of centerline, up to 4112’ MSL. Traverse way 2987’ from DER, 530’ right of centerline, 4117’ MSL. Traverse way 2995’ from DER, 635’ right of centerline, 4121’ MSL. Traverse way, terrain beginning 3009’ from DER, 489’ right of centerline, up to 4123’ MSL. Tree, traverse way, terrain beginning 3531’ from DER, 12’ right of centerline, up to 4130’ MSL. Traverse way, terrain beginning 3449’ from DER, 633’ right of centerline, up to 4143’ MSL. Traverse way 3499’ from DER, 1364’ right of centerline, 4149’ MSL. Traverse way, terrain, vegetation beginning 3570’ from DER, 101’ right of centerline, up to 4155’ MSL. Terrain beginning 3581’ from DER, 42’ left of centerline, up to 4112’ MSL. Terrain beginning 4127’ from DER, 627’ right of centerline, up to 4156’ MSL. Tree, terrain beginning 4143’ from DER, 768’ right of centerline, up to 4180’ MSL.

NOGALES, AZ (CON’T)

TAKEOFF MINIMUMS (OLS) (LGS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B  19059 (FAA)

TAKEOFF MINIMUMS: Use EOMONT DEPARTURE.

TAKEOFF OBSTACLE NOTES: Rwys 3, 5, 21, 23, vehicle on road beginning 195’ from DER, 267’ right of centerline, up to 17’ AGL/4426’ MSL. Pole 241’ from DER, 535’ left of centerline, 39’ AGL/4447’ MSL. Pole 348’ from DER, 582’ right of centerline, 41’ AGL/4451’ MSL. Trees, building beginning 375’ from DER, 62’ left of centerline, up to 4451’ MSL. Tree, pole beginning 430’ from DER, 502’ right of centerline, up to 4455’ MSL. Rwys 21, tree 702’ from DER, 649’ left of centerline, 4492’ MSL. Tree 1133’ from DER, 701’ left of centerline, 4513’ MSL. Trees, building, pole beginning 2074’ from DER, 792’ left of centerline, up to 4570’ MSL. Tree 3429’ from DER, 421’ right of centerline, 4561’ MSL. Rwys 35, tree 209’ from DER, 185’ left of centerline, 4466’ MSL. Tree 243’ from DER, 233’ left of centerline, 4474’ MSL. Trees beginning 292’ from DER, 87’ right of centerline, up to 4454’ MSL. Tree 686’ from DER, 397’ right of centerline, 4479’ MSL.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B  19059 (FAA)

DEPARTURE PROCEDURE: Use EOMONT DEPARTURE.

TAKEOFF MINIMUMS: Rwys 3, 5, NAVAID, vehicle on road beginning 195’ from DER, 267’ right of centerline, up to 17’ AGL/4426’ MSL. Pole 241’ from DER, 535’ left of centerline, 39’ AGL/4447’ MSL. Pole 348’ from DER, 582’ right of centerline, 41’ AGL/4451’ MSL. Trees, building beginning 375’ from DER, 62’ left of centerline, up to 4451’ MSL. Tree, pole beginning 430’ from DER, 502’ right of centerline, up to 4455’ MSL. Rwys 21, tree 702’ from DER, 649’ left of centerline, 4492’ MSL. Tree 1133’ from DER, 701’ left of centerline, 4513’ MSL. Trees, building, pole beginning 2074’ from DER, 792’ left of centerline, up to 4570’ MSL. Tree 3429’ from DER, 421’ right of centerline, 4561’ MSL. Rwys 35, tree 209’ from DER, 185’ left of centerline, 4466’ MSL. Tree 243’ from DER, 233’ left of centerline, 4474’ MSL. Trees beginning 292’ from DER, 87’ right of centerline, up to 4454’ MSL. Tree 686’ from DER, 397’ right of centerline, 4479’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PAGUITCH, UT
PANGUITCH MUNI (U55)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 16203 (FAA)
TAKEOFF MINIMUMS: Rwys 7, 25, NA – obstacles. Rw y 15, std. w/ min. climb of 285’ per NM to 6500, or 3100-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rw 33, Climb heading 336° to 6000’ or climbing left turn into direct PGA VOR/DME, thence… Rw 15, Climb heading 156° to 6200, then climbing right turn direct PGA VOR/DME, thence… …cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold nw, right turns 147° inbound) to cross PGA VOR/DME at or above MEA/MCA for direction of flight.
VCOA: Rw 15, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Page Muni airport at or above 7300 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 15, rising terrain 192’ from DER, 272’ right of centerline, 4323’ MSL.

PARKER, AZ
AVI SUQUILLA (P20)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14261 (FAA)
TAKEOFF MINIMUMS: Rw 1, std. w/min. climb of 275’ per NM to 2700 or 1800-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: Rw 1, climb heading 012° to 1400 then climbing right turn to intercept PKE VORTAC R-067 to PKE VORTAC. Rw 19, climbing right turn to intercept PKE VORTAC R-067 to PKE VORTAC.
VCOA: Rw 1, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Avi Suquilla airport at or above 2100 then proceed on PKE R-067 to PKE VORTAC.

PAYSON, AZ
PAYSON (PAN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 18144 (FAA)
TAKEOFF MINIMUMS: Rw 6, std. w/min. climb of 360’ per NM to 9300, or 2500-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rw 6, 24, for climb in visual conditions: Cross Payson Airport at or above 7500 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.
TAKEOFF OBSTACLE NOTES: Rw 6, tree 197’ from DER, 118’ right of centerline, up to 12’ AGL/5170’ MSL. Bush 83’ from DER, 96’ right of centerline, 12’ AGL/5154’ MSL. Fence 85’ from DER, 84’ left of centerline, 4’ AGL/5141’ MSL. Tree 164’ from DER, 126’ left of centerline, 9’ AGL/5147’ MSL.

PHOENIX, AZ
PHOENIX DEER VALLEY (DVT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 18144 (FAA)
DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rw 7L, multiple poles and vegetation beginning 912’ from DER, 125’ left of centerline, up to 30’ AGL/2423’ MSL. Cactus 3,824’ from DER, 96’ right of centerline, 16’ AGL/1,596’ MSL. Windsock 340’ from DER, 354’ right of centerline, 9’ AGL/1,488’ MSL. Rw 7R, multiple antennas and vegetation beginning 546’ from DER, 267’ left of centerline up to 52’ AGL/1,952’ MSL. Multiple antennas and vegetation beginning 978’ from DER, 431’ right of centerline up to 40’ AGL/1,609’ MSL. Rw 25R, multiple antennas beginning 1.4 NM from DER, 1,847’ right of centerline, up to 96’ AGL/1,806’ MSL. Rw 25L, pole 1,127’ from DER, 498’ right of centerline, 38’ AGL/1,475’ MSL. Pole 1,184’ from DER, 495’ left of centerline, 32’ AGL/1,471’ MSL.
DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 14317 (FAA)
Rwys 25L, 25R, heading as assigned by ATC; requires minimum climb of 370’ per NM to 4600.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PHOENIX, AZ (CON’T)

PHOENIX SKY HARBOR INTL (PHX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 14261 (FAA)
TAKEOFF MINIMUMS: Rw 26, 600-2¾ or std. w/min. climb of 326’ per NM to 1900.
DEPARTURE PROCEDURE: Rwys 7L, 7R, 8, climb
heading 078° to 3000, then climbing right turn direct
PXR VORTAC. Rwys 25L, 25R, climb heading 258° to
1900 then climbing right turn to join PXR R-260 (V16)
westbound, climb to 5000. Rw 26, climb heading 258°
to 1550, then join PXR R-260 (V16) westbound, climb
to 5000. Westbound departures continue climb on PXR
R-260. All others, climbing right turn direct PXR
VORTAC.

TAKEOFF OBSTACLE NOTES: Rw 7R, transmission
towers and power lines, 3201’ from DER, 1122’ right of
centerline, up to 131’ AGL/1260’ MSL. Rw 8, multiple
light poles, beginning 2539’ from DER, 900’ left of
centerline, up to 82’ AGL/1234’ MSL. Light pole, 1639’
from DER, 793’ right of centerline, 46’ AGL/1177’ MSL.
Rw 25L, multiple light poles, beginning 681’ from
der DER, 521’ left of centerline, up to 63’ AGL/1166’ MSL.
Sign, 902’ from DER, 711’ left of centerline, 64’
AGL/1170’ MSL. Multiple light poles, beginning 1519’
from DER, 535’ left of centerline, up to 99’ AGL/1201’
MSL. Multiple light poles, beginning 1919’ from DER,
598’ left of centerline, up to 90’ AGL/1192’ MSL. Rw
26, pole, 42’ from DER, 440’ left of centerline, 26’
AGL/1135’ MSL. Fence, 176’ from DER, 547’ left of
centerline, 11’ AGL/1120’ MSL. Pole, 315’ from DER,
499’ left of centerline, 11’ AGL/1120’ MSL. Tree, 763’
from DER, 642’ left of centerline, 24’ AGL/1135’ MSL.
Pole, 1959’ from DER, 923’ left of centerline, 59’
AGL/1163’ MSL. Pole, 2312’ from DER, 318’ left of
centerline, 66’ AGL/1169’ MSL. Pole, 2336’ from DER,
576’ left of centerline, 67’ AGL/1170’ MSL. Pole, 78’
from DER, 456’ right of centerline, 32’ AGL/1142’ MSL.
Pole, 82’ from DER, 64’ right of centerline, 18’
AGL/1127’ MSL. Tree, 118’ from DER, 294’ right of
centerline, 22’ AGL/1133’ MSL. Tree, 239’ from DER,
214’ right of centerline, 22’ AGL/1133’ MSL. Tree, 414’
from DER, 522’ right of centerline, 24’ AGL/1135’ MSL.
Sign, 520’ from DER, 567’ right of centerline, 16’
AGL/1125’ MSL. Pole, 2301’ from DER, 193’ right of
centerline, 69’ AGL/1171’ MSL. Pole, 2302’ from DER,
661’ right of centerline, 68’ AGL/1171’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 14317 (FAA)
Rwys 7L, 7R, 8, heading as assigned by ATC. Rw 25L,
heading as assigned by ATC; requires minimum climb of 305’ per NM to 6000. Rw 25R,
heading as assigned by ATC; requires minimum climb of 325’ per NM to 6000. Rw 26, heading as assigned
by ATC; requires minimum climb of 300’ per NM to 6000.

PHOENIX, AZ (CON’T)

PHOENIX-MESA GATEWAY (IWA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 18144 (FAA)
DEPARTURE PROCEDURE: Use PHOENIX DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rw 30L/C/R, trees
beginning 351’ from DER, 351’ left of centerline, up to 20’
AGL/1,359’ MSL. Trees beginning 689’ from DER, 398’
right of centerline, up to 20’ AGL/1,359’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 15232 (FAA)
Rwys 12L, 12C, 12R, as assigned by ATC; requires
minimum climb of 250’ per NM to 3100. Rwys 30L, 30C,
30R, heading as assigned by ATC.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 14317 (FAA)
Rwys 7L, 7R, 8, heading as assigned by ATC. Rw 25L,
heading as assigned by ATC; requires minimum climb of 305’ per NM to 6000. Rw 25R,
heading as assigned by ATC; requires minimum climb of 325’ per NM to 6000. Rw 26, heading as assigned
by ATC; requires minimum climb of 300’ per NM to 6000.

19227

19227

L18

SW-4
PRESCOTT, AZ (PRC) PRESCOTT RGNL-ERNEST A LOVE FIELD

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 19171 (FAA)

DEPARTURE PROCEDURE: Use PRESCOTT DEPARTURE.

TAKEOFF OBSTACLE NOTES: Rwys 3L, lighting 8’ from DER, 19’ right of centerline, 1’ AGL/4939’ MSL. Sign 15’ from DER, 126’ left of centerline, 3’ AGL/4939’ MSL. Tree 20’ from DER, 408’ left of centerline, 4949’ MSL. Tree 184’ from DER, 404’ left of centerline, 4951’ MSL. Rwys 12, tree 4’ from DER, 323’ right of centerline, 5066’ MSL. Buildings, lighting, sign beginning 9’ from DER, 122’ left of centerline, up to 31’ AGL/5057’ MSL. Tree, utility pole, sign, terrain beginning 19’ from DER, 65’ right of centerline, up to 28’ AGL/5066’ MSL. Terrain, trees, building, lighting beginning 224’ from DER, 111’ left of centerline, up to 46’ AGL/5062’ MSL. Terrain, road beginning 196’ from DER, 317’ left of centerline, up to 5069’ MSL. Trees beginning 302’ from DER, 361’ left of centerline, up to 45’ AGL/5083’ MSL. Tower, road, trees, pole beginning 426’ from DER, 267’ left of centerline, up to 46’ AGL/5092’ MSL. Terrain, trees beginning 2.1 NM from DER, 2368’ right of centerline, up to 50’ AGL/5056’ MSL. Rwys 21R, sign, terrain beginning 11’ from DER, 82’ left of centerline, up to 2’ AGL/4977’ MSL. Sign, trees, road, building, electrical system, pole, tank beginning 11’ from DER, 19’ right of centerline, up to 50’ AGL/5024’ MSL. Trees beginning 90’ from DER, 70’ left of centerline, up to 50’ AGL/5041’ MSL. Trees, poles, building beginning 752’ from DER, 22’ right of centerline, up to 50’ AGL/5031’ MSL. Trees, pole, building beginning 940’ from DER, 3’ left of centerline, up to 50’ AGL/5044’ MSL. Trees, poles, building beginning 980’ from DER, 22’ right of centerline, up to 50’ AGL/5044’ MSL. Fence, trees, poles, road, building, stack, tank beginning 1207’ from DER, 35’ right of centerline, up to 50’ AGL/5054’ MSL. Trees, poles beginning 1561’ from DER, left and right of centerline, up to 50’ AGL/5064’ MSL. Trees beginning 1954’ from DER, 129’ left of centerline, 50’ AGL/5064’ MSL. Trees, building beginning 2325’ from DER, left and right of centerline, up to 50’ AGL/5080’ MSL. Trees beginning 2615’ from DER, 140’ left of centerline, up to 50’ AGL/5077’ MSL. Building, trees beginning 2718’ from DER, 35’ right of centerline, up to 50’ AGL/5093’ MSL. Trees, pole beginning 3134’ from DER, 128’ left of centerline, up to 50’ AGL/5090’ MSL. Trees, beginning 3442’ from DER, 24’ right of centerline, up to 50’ AGL/5103’ MSL. Trees beginning 3527’ from DER, 175’ left of centerline, up to 50’ AGL/5103’ MSL. Antenna, building, trees beginning 3772’ from DER, left and right of centerline, up to 90’ AGL/5116’ MSL. Trees beginning 4194’ from DER, 145’ right of centerline, up to 5113’ MSL. Trees beginning 4758’ from DER, left and right of centerline, up to 75’ AGL/5117’ MSL. Trees beginning 5180’ from DER, 15’ right of centerline, 70’ AGL/5119’ MSL. Trees beginning 5408’ from DER, 743’ right of centerline, up to 50’ AGL/5126’ MSL. Rwys 21L, lighting, fence beginning 30’ from DER, 336’ left of centerline, up to 7’ AGL/5042’ MSL. Road, fence, pole, building beginning 3325’ from DER, 11’ right of centerline, up to 5056’ MSL. Wind indicator, pole, trees, roads beginning 402’ from DER, 269’ right of centerline, up to 5076’ MSL. Tree, fence, roads, lighting, pole, sign, NAVAID, building beginning 614’ from DER, 41’ left of centerline, up to 5113’ MSL. Trees, road beginning 782’ from DER, 528’ right of centerline, up to 47’ AGL/5089’ MSL. Trees, road, pole, fence, electrical system, building, lighting, antenna beginning 971’ from DER, 2’ right of centerline, up to 70’ AGL/5117’ MSL. Trees beginning 1773’ from DER, 108’ left of centerline, up to 71’ AGL/5116’ MSL. Rwys 30, buildings, sign, poles beginning 28’ from DER, 127’ left of centerline, up to 25’ AGL/5041’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

RENO, NV
RENO/STEAD (RTS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 09183 (FAA)
TAKEOFF MINIMUMS: CAT A, B only, CAT C,D NA.
Rwys 8, 14, 1300-2 or std. with a min. climb of 400’ per NM to 6500. Rwys 26, 1900-2 or std. with a min. climb of 410’ per NM to 7200. Rwys 32, 2300-2 or std. with a min. climb of 420’ per NM to 7200.
DEPARTURE PROCEDURE: Rwys 8, 32, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC. Rw 14, left turn climb direct FMG VORTAC. Rw 26, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC. All aircraft climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CW R-170 at or above 10000; R-171 CW R-195 at or above 10500; R-196 CW R-259 at or above 12000.

RENO/TAHOE INTL (RNO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 07354 (FAA)
TAKEOFF MINIMUMS: Rw 7, NA-terrain. Rw 16L, std. w/ min. climb of 730’ per NM to 8000, or 600-1 1/2 w/ min. climb of 480’ per NM to 8000, or 2700-3 for climb in visual conditions. Rw 16R, std. w/ the following minimum climb requirements: 210 knots or less, 385’ per NM to 8000; more than 210 knots, 420’ per NM to 8900, or 2700-3 for climb in visual conditions. Resume normal speed after passing FMG VORTAC. Rw 25, std. w/ min. climb of 470’ per NM to 7800, or 2700-3 for climb in visual conditions. Rw 34L, std. w/ min. climb of 320’ per NM to 7000, or 2700-3 for climb in visual conditions. Rw 34R, std. w/ min. climb of 480’ per NM to 7000, or 500-1 1/2 w/ min. climb of 320’ per NM to 7000, or 2700-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwys 16L/R, climb heading 164° to 6600 then climbing left turn direct FMG VORTAC, thence. . . or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence. . . Rw 25, climb heading 254° to 5000 then climbing right turn direct FMG VORTAC, thence. . . or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence. . . Rwys 34L/R, climb heading 344° to 7000 then climbing right turn direct FMG VORTAC, thence. . . or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence. . . All aircraft: continue climb in FMG VORTAC holding pattern (northeast, left turn, 221° inbound) to cross FMG VORTAC at or above MEA/MCA for route of flight.
TAKEOFF OBSTACLE NOTES: Rw 16L, multiple poles, trees, bushes and terrain beginning 618’ from DER, 133’ left of centerline, up to 20’ AGL/4510’ MSL. Rw 16R, multiple trees 2784’ from DER, 171’ right of centerline, up to 20’ AGL/4510’ MSL. Multiple trees and terrain beginning 746’ from DER, 380’ left of centerline, up to 20’ AGL/4703’ MSL.

RENO, NV (CON’T)
RENO/TAHOE INTL (RNO) (CON’T)
Rwy 25, multiple trees and poles beginning 829’ from DER, 201’ right of centerline, up to 103’ AGL/4523’ MSL. Building 6023’ from DER, 456’ right of centerline, 152’ AGL/4608’ MSL. Fence 222’ from DER, 270’ right of centerline, up to 5’ AGL/4415’ MSL. Multiple trees and poles beginning 500’ from DER, 31’ left of centerline, up to 20’ AGL/4506’ MSL. Rwys 34L, multiple trees and poles beginning 1229’ from DER, 180’ right of centerline, up to 20’ AGL/4498’ MSL. Multiple trees beginning 1193’ from DER, 331’ left of centerline, up to 20’ AGL/4489’ MSL. Rw 34R, multiple trees and poles beginning 1067’ from DER, 172’ right of centerline, up to 20’ AGL/4497’ MSL. Multiple trees and poles beginning 1230’ from DER, 350’ left of centerline, up to 20’ AGL/4498’ MSL. Building 1.2 NM from DER, 1730’ right of centerline, 363’ AGL/4780’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 15008 (FAA)
Rwy 25, heading as assigned by ATC; requires minimum climb of 500’ per NM to 8100. Rw 34L, heading as assigned by ATC; requires minimum climb of 460’ per NM to 7700.

RICHFIELD, UT
RICHFIELD MUNI (RIF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08157 (FAA)
DEPARTURE PROCEDURE: Rw 1, use RICHFIELD (RNAV) DEPARTURE. Rw 19, use RICHFIELD (RNAV) DEPARTURE.
ROOSEVELT, UT
ROOSEVELT MUNI (74V)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 16315 (FAA)
TAKEOFF MINIMUMS:
- Rwys 7, std. Rw 25, std. w/min. climb of 300’ per NM to 6100 or 1300-3 for VCOA.
DEPARTURE PROCEDURE: Rw 25, turn right. Rw 25, turn left. All aircraft, climb direct MTU VOR/DME.
Aircraft departing MTU VOR/DME R-040 CW R-150, Climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VOR/DME; R-151 CW R-230 at or above 8000; R-291 CW R-039 at or above 10000. Then climb on course.
VCOA: Rw 25, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Roosevelt Muni airport southbound at or above 6300 on MTU R-010 to MTU VOR/DME, continue climb in hold (NE, right turns, 213° inbound) to MEA for direction of flight.
TAKEOFF OBSTACLE NOTES: Rw 7, NAVAID 38’ from DER, 110’ left of centerline, 5’ AGL/5111’ MSL. Vehicles on road beginning 76’ from DER, 250’ left of centerline, up to 15’ AGL/5122’ MSL. Rw 25, NAVAID 39’ from DER, 112’ left of centerline, 2’ AGL/5177’ MSL. Trees 95’ from DER, 384’ left of centerline, 9’ AGL/5159’ MSL. Trees beginning 180’ from DER, 403’ left and right of centerline, up to 22’ AGL/5192’ MSL. Tree, building, vehicle on road, pole beginning 5668’ from DER, 1461’ right of centerline, up to 45’ AGL/5345’ MSL. Trees, poles, buildings, vehicle on road beginning 1 NM from DER, 1031’ right of centerline, up to 100’ AGL/5410’ MSL. Tree, vehicle on road, terrain beginning 1.2 NM from DER, 1904’ right of centerline, up to 16’ AGL/5416’ MSL. Poles, tree, vehicle on road beginning 1.3 NM from DER, 1915’ right of centerline, up to 56’ AGL/5426’ MSL. Trees beginning 1.5 NM from DER, 1553’ right of centerline, up to 55’ AGL/5485’ MSL. Trees beginning 1.8 NM from DER, 1871’ right of centerline, up to 53’ AGL/5493’ MSL. Tree 1.9 NM from DER, 1987’ right of centerline, 20’ AGL/5483’ MSL.

SAFFORD, AZ
SAFFORD RGNL (SAD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10210 (FAA)
TAKEOFF MINIMUMS:
- Rwys 8, 26, NA - Airspace.
DEPARTURE PROCEDURE: Rwys 12, 30, use SAFFORD RNAV DEPARTURE.

ST. GEORGE, UT
ST. GEORGE RGNL (SGU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 16147 (FAA)
DEPARTURE PROCEDURE: Use JITKA DEPARTURE.

ST. JOHNS, AZ
ST. JOHNS INDUSTRIAL AIR PARK (SJJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1B 16315 (FAA)
TAKEOFF MINIMUMS:
- Rwys 3, 32, 14, std. Rw 21, 700-2% or standard w/min, climb of 376’ per NM to 6600.
DEPARTURE PROCEDURE: Rwys 3, 32, climbing right turn. Rwys 14, 21, climbing left turn. All aircraft, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW to R-080 Climb on course. All others continue climb in SIN VORTAC holding pattern (hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.
TAKEOFF OBSTACLE NOTES: Rw 3, sign 15’ from DER, 125’ left of centerline, 3’ AGL/5736’ MSL. Rw 14, vehicle on road 1’ from DER, 113’ right of centerline, up to 15’ AGL/5750’ MSL. Tree, fence, post, obstruction light on building, ant on building and transmission line tower beginning 27’ from DER, 94’ left of centerline, up to 5780’ MSL. Airport beacon lighted, tower, pole, windsock, building, obstruction light on building, light pole, transmission tower and tree, beginning 58’ from DER, 88’ right of centerline, up to 57’ AGL/5793’ MSL. Vehicle on road 67’ from DER, crossing centerline, 15’ AGL/5752’ MSL. Trees and poles beginning 515’ from DER, 73’ left of centerline, up to 76’ AGL/5764’ MSL.
Rwys 14, 21, climb of 300’ per NM to 6100 or 1300-3 for VCOA.

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

SALT LAKE CITY, UT
SALT LAKE CITY INTL (SLC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 11A 17229 (FAA)
TAKEOFF MINIMUMS: Rwy 32, 400-1 or std. w/ min. climb of 498' per NM to 4700.
DEPARTURE PROCEDURE: Rwy 14, climb to 10000 on heading 192° and FFU R-341 to FFU VORTAC before proceeding on course. Rwy 16L, climb to 10000 on heading 164° and FFU R-341 to FFU VORTAC before proceeding on course. Rwy 32, climb to 9000 on heading 002° and OGD R-153 to OGD VORTAC before proceeding on course. Rwy 34L, climb to 9000 on heading 344° and OGD R-153 to OGD VORTAC before proceeding on course. Takeoff Obstacle Notes: Rwy 14, antenna 1349' from DER, 544' left of centerline, 42' AGL/4263' MSL. Rwy 16L, vehicle on road 124' from DER, 14' right of centerline, 15' AGL/4239' MSL. Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL. Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL. Rwy 17, vehicles on road beginning 335' from DER, on centerline. 34' AGL/4254' MSL. Rwy 32, ATC tower 5,266' from DER, 1767' left of centerline, 335' AGL/4594' MSL. Crane 5196' from DER, 1630' left of centerline, 240' AGL/4463' MSL. Flag on OL 5,153' from DER, 1619' left of centerline, 249' AGL/4463' MSL. Aircraft beginning 969' from DER, 722' left of centerline, up to 79' AGL/4306' MSL. Rwy 34R, post 13' from DER, 349' right of centerline, 3' AGL/4222' MSL. Rwy 35, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 17257
Rwy 14, heading as assigned by ATC. Rwy 16L, heading as assigned by ATC. Rwy 16R, heading as assigned by ATC. Rwy 17, heading as assigned by ATC. Rwy 34L, heading as assigned by ATC. Rwy 34R, heading as assigned by ATC. Rwy 35, heading as assigned by ATC.

SALT LAKE CITY, UT (CON’T)
SOUTH VALLEY RGNL (U42)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 18032 (FAA)
TAKEOFF MINIMUMS: Rwy 16, std. w/ min. climb of 300' per NM to 10700. Rwy 34, std. w/ min. climb of 330' per NM to 9000.
DEPARTURE PROCEDURE: Rwy 16, climbing left turn to 10700 on FFU VORTAC R-341 to FFU VORTAC, continue climb in FFU VORTAC holding pattern (hold S, right turn, 008° inbound) to cross FFU VORTAC at or above MEA/MCA for route of flight. Rwy 34, climbing right turn to 9000 on TCH VORTAC R-161 to TCH VORTAC, continue climb in TCH VORTAC holding pattern (hold N, right turn, 120° inbound) to cross TCH VORTAC at or above MEA/MCA for route of flight.
TAKEOFF OBSTACLE NOTES: Rwy 16, NAVAID abeam DER, 99' right of centerline, 4602' MSL. Terrain, sign beginning 34' from DER, 207' right of centerline, up to 4606' MSL. Vehicle on road 83' from DER, 252' left of centerline, 4611' MSL. Vehicle on road 171' from DER, 132' left of centerline, 4614' MSL. Pole 551' from DER, 631' right of centerline, 15' AGL/4626' MSL. Vehicle on road, vegetation beginning 672' from DER, 490' right of centerline, up to 4629' MSL. Pole 1000' from DER, 638' right of centerline, 4638' MSL. Pole 1008' from DER, 466' right of centerline, 31' AGL/4640' MSL. Pole beginning 1092' from DER, 687' right of centerline, up to 31' AGL/4644' MSL. Rwy 34, NAVAID 10' from DER, 96' left of centerline, 4606' MSL. NAVAID 10' from DER, 94' right of centerline, 4604' MSL. Terrain 58' from DER, 424' left of centerline, 4608' MSL.

SCOTTSDALE, AZ
SCOTTSDALE (SDL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 9 18144 (FAA)
DEPARTURE PROCEDURE: Use MARICOPA DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rwy 3, multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1,554 MSL. Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1,561 MSL. Dike begins 1,066' from DER, 316' right of centerline, 38' AGL/1,548' MSL. Day marker on dike, 1,230' from DER, 5' left of centerline, 39' AGL/1,549 MSL. Tree 765' from DER, 115' left of centerline, 22' AGL/1,532' MSL. Road beginning 647' from DER, 296' left of centerline, 19' AGL/1,529' MSL. Fence beginning 5' from DER, 338' right of centerline, 6' AGL/1,511' MSL. Light standard 1,013' from DER, 430' right of centerline, 44' AGL/1,552' MSL. Rwy 21, trees 1,072' from DER, 426' right of centerline, 53' AGL/1,497' MSL. Building 317' from DER, 537' right of centerline, 23' AGL/1,467' MSL. Tree 2,087' from DER, 418' left of centerline, 61' AGL/1,505' MSL. Tree 1,432' from DER, 438' right of centerline, 38' AGL/1,482' MSL. Tree 2,234' from DER, 559' left of centerline, 58' AGL/1,502' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 14317 (FAA)
Rwy 3, heading as assigned by ATC; requires minimum climb of 445' per NM to 4600. Rwy 21, heading as assigned by ATC; do not exceed 210 KTS until established on assigned heading.
SEDONA, AZ
SEDONA (SEZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08101 (FAA)
TAKEOFF MINIMUMS: Rw4, NA- Obstacles.
DEPARTURE PROCEDURE: Rw4 21, Use OATES RNAV DEPARTURE.

SHOW LOW, AZ
SHOW LOW RNGL (SOW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18200 (FAA)
DEPARTURE PROCEDURE: Rw4, climbing left turn heading 360° to 7800 before proceeding on course.
Rw7, climbing left turn heading 360° to 8100 before proceeding on course.
Rw22, climbing right turn heading 255° to 7700 before proceeding on course.
Rw25, climb on heading 246° to 7600 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw4, sign, building, fence, pole beginning 44' from DER, 183' right of centerline, up to 6' AGL/4606' MSL. Pole 240' from DER, 222' right of centerline, 16' AGL/4611' MSL. Rw7, general utility 39' from DER, 92' right of centerline, 19' AGL/4624' MSL. General utility 40' from DER, 88' left of centerline, 20' AGL/4629' MSL. Rw22, tree 94' from DER, 197' left of centerline, 6424' MSL. Trees beginning 185' from DER, 428' left of centerline, up to 6417' AGL. Pole 204' from DER, 222' right of centerline, 16' AGL/4602' MSL. General utility 40' from DER, 88' left of centerline, 20' AGL/4602' MSL. Rw25, pole 10' from DER, 29' right of centerline, 18' AGL/4601' MSL. Pole 640' from DER, 310' right of centerline, 6418' MSL. Pole 644' from DER, 307' right of centerline, 37' AGL/4619' MSL. Pole beginning 704' from DER, 677' left of centerline, up to 53' AGL/4637' MSL. Pole, catenary beginning 726' from DER, 3' left of centerline, up to 54' AGL/4638' MSL. Pole 760' from DER, 158' right of centerline, 47' AGL/4630' MSL. Pole 763' from DER, 159' right of centerline, 49' AGL/4632' MSL. Pole, catenary beginning 764' from DER, 77' right of centerline, up to 54' AGL/4637' MSL. Pole beginning 842' from DER, 317' right of centerline, up to 57' AGL/4638' MSL.

SILVER SPRINGS, NV
SILVER SPRINGS (SPZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17117 (FAA)
TAKEOFF MINIMUMS: Rw24, 2800-3 for VCOA.
DEPARTURE PROCEDURE: Rw6, climb heading 056° to intercept HZN R-220 to 8000. Continue climb in HZN VORTAC holding pattern (hold NE, RT, 211° inbound) to cross HZN VORTAC at or above MEA for route of flight. VCOA: Rw24, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Silver Springs Airport at or above 6900, then proceed on HZN VORTAC R-220 to 8000 to HZN VORTAC.
TAKEOFF OBSTACLE NOTES: Rw6, windsock and sign beginning 29' from DER, 204' left of centerline, up to 23 AGL/4235' MSL. Rw24, terrain 52' from DER, 495' right of centerline, 4267' MSL. Pole 2258' from DER, 938' right of centerline, 33' AGL/4324' MSL. Pole 2277' from DER, 883' right of centerline, 38' AGL/4328' MSL.

SPANISH FORK, UT
SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD (SPK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 19003 (FAA)
DEPARTURE PROCEDURE: Use SPANISH FORK DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rw12, lighting 10' from DER, 29' left of centerline, 2' AGL/4530' MSL. Fence 60' from DER, 481' right of centerline, 4535' MSL. Building 198' from DER, 449' right of centerline, 12' AGL/4541' MSL. Sign, building beginning 297' from DER, 461' right of centerline, up to 4552' MSL. Building 1023' from DER, 600' right of centerline, 4555' MSL. Pole 1031' from DER, 651' left of centerline, 4563' MSL. Pole, building beginning 1140' from DER, 503' left of centerline, up to 4565' MSL. Building 1173' from DER, 560' right of centerline, 4559' MSL. Building 1434' from DER, 855' right of centerline, 4572' MSL. Tree 1514' from DER, 742' left of centerline, 4568' MSL. Pole 1818' from DER, 352' right of centerline, 4576' MSL. Pole beginning 3232' from DER, 1134' right of centerline, up to 4621' MSL. Pole, sign beginning 3499' from DER, 801' left of centerline, up to 106' AGL/4673' MSL. Electrical system 3922' from DER, 628' right of centerline, 4637' MSL. Pole 4450' from DER, 883' right of centerline, 4649' MSL. Pole 4709' from DER, 1365' right of centerline, 4662' MSL. Pole 5162' from DER, 1194' right of centerline, 4664' MSL. Pole 2 NM from DER, 3639' left of centerline, 4853' MSL. Rw30, lighting 9' from DER, 29' right of centerline, 2' AGL/4525' MSL. Vegetation 36' from DER, 145' right of centerline, 9' AGL/4527' MSL. Tree 750' from DER, 557' left of centerline, 4546' MSL. Pole 1182' from DER, 595' left of centerline, 50' AGL/4570' MSL. Pole beginning 1479' from DER, 268' left of centerline, up to 60' AGL/4579' MSL. Tree 1505' from DER, 550' right of centerline, 49' AGL/4565' MSL.
**SPRINGERVILLE, AZ**

**SPRINGERVILLE MUNI (JTC)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 96228 (FAA)

TAKEOFF MINIMUMS: Rwys 21, 1000-2 or std. with a min. climb of 360° per NM to 8400.

DEPARTURE PROCEDURE: Rwys 3, 11, climbing left turn to 8400 via heading 360° before proceeding on course. Rwys 21, 29, climbing right turn to 8400 via 360° before proceeding on course.

**TAYLOR, AZ**

**TAYLOR (TYL)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11125 (FAA)

TAKEOFF MINIMUMS: Rwys 21, 300-1 or std. w/min. climb of 290° per NM to 6100.

DEPARTURE PROCEDURE: Rw 3, climbing heading 030° to 8000 before turning on course. Rw 21, climbing heading 210° to 8000 before turning on course.

TAKEOFF OBSTACLE NOTES: Rw 3, vehicles on road beginning 1823' from DER, 698' right of centerline, up to 17' AGL/5726' MSL. Power lines crossing departure course 1000' from DER. Rw 21, trees beginning 1132' from DER, 316' right of centerline, up to 12' AGL/5871' MSL.

**TONOPAH, NV**

**TONOPAH (TPH)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17229 (FAA)

TAKEOFF MINIMUMS: Rwys 11, 29, NA - ATL. Rw 15, std. with a min. climb of 320° per NM to 9100 or 2500-3 for VCOA. Rw 33, std. with a min. climb of 352° per NM to 9100 or 2500-3 for VCOA.

DEPARTURE PROCEDURE: Rw 15, climbing left turn direct TONOPAH (TPH) VORTAC thence... Rw 33, climbing right turn direct TONOPAH (TPH) VORTAC thence... continue climb in TPH holding pattern (NE, RT, 246° inbound) to cross TPH VORTAC at or above 9300 before proceeding on course.

VCOA: Rw 15, 33, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Tornopah airport at or above 7800 direct TONOPAH VORTAC, continue climb in TPH holding pattern (NE, RT, 246° inbound) to cross TPH VORTAC at or above 9300 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 15, transmission line tower 515' from DER, 473' left of centerline, 23' AGL/5418' MSL. Rw 33, fence beginning 173' from DER, 401' right of centerline, 6' AGL/5438' MSL.

**TONOPAH TEST RANGE (KTNX)**

**TONOPAH, NV**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18200

DEPARTURE PROCEDURE: Rw 14, 1000-3 with min. climb of 320 ft/NM to 10,700 or 2700-3 for Climb in Visual Conditions. Climb on a heading between 325º CW to 155º from DER or Climb in Visual Conditions to cross KZ - KTNX at or above 8100 MSL before proceeding on course. Rw 32, 1000-3 with min. climb of 260 ft/NM to 5900 or 2700-3 for Climb in Visual Conditions. Climb on a heading between 295º CW to 005º from DER or Climb in Visual Conditions to cross KZ-KTNX airport at or above 8100 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 14, terrain 1204' from DER, 833' right of centerline, 5562' MSL. Terrain 63' from DER, 517' right of centerline, 5565' MSL. Terrain 46' from DER, 480' right of centerline, 5564' MSL. Terrain 0' from DER, 353' right of centerline, 5561' MSL. Terrain 62' from DER, 200' right of centerline, 5558' MSL. Terrain 14' from DER, 292' right of centerline, 5561' MSL. Terrain 0' from DER, 287' right of centerline, 5561' MSL. Terrain 0' from DER, 252' right of centerline, 5559' MSL. Surveyed terrain 215' from DER, 427' right of centerline, 5560' MSL. Rw 32, terrain 0' from DER, 500' left of centerline, 5476' MSL. Terrain 19' from DER, 465' left of centerline, 5476' MSL. Terrain 110' from DER, 529' left of centerline, 5476' MSL.

**TOOELE, UT**

**BOLINDER FIELD-TOOELE VALLEY (TVY)**

**BOLINDER FIELD-TOOELE VALLEY (TVY)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 13234 (FAA)

TAKEOFF MINIMUMS: Rwys 17, std. w/min. climb of 348' per NM to 9000 or 5600-3 for climb in visual conditions. Rw 35, std. w/min. climb of 380' per NM to 9000 or 5600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: Rw 17, climbing right turn to 9000 on heading 337° and OGD VORTAC R-197 to STACO INT, or for climb in visual conditions: cross Bolinder Field-Tooele Valley airport at or above 9800' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure. Rw 35, climbing left turn to 9000 on heading 300° and OGD VORTAC R-197 to STACO INT, or for climb in visual conditions: cross Bolinder Field-Tooele Valley airport at or above 9800' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: Rw 17, tree 230' from DER, 255' right of centerline, 35' AGL/4335' MSL. Tree 342' from DER, 363' right of centerline, 35' AGL/4360' MSL. Trees beginning 601' from DER, 5561' MSL. Terrain 1109' from DER, 700' right of centerline, 5549' AGL/4398' MSL. Tree 1369' from DER, 393' right of centerline, 35' AGL/4381' MSL. Tree 2018' from DER, 427' left of centerline, 35' AGL/4384' MSL.

**TUCSON, AZ**

**RYAN FIELD (RYN)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10210 (FAA)

TAKEOFF MINIMUMS: Rwys 6L, 15, 24R, 33, NA, ATC. DEPARTURE PROCEDURE: Rwys 6R, 24L, use ALMON DEPARTURE.
TUCSON, AZ (CON’T)
TUCSON INTL (TUS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 12208 (FAA)
TAKEOFF MINIMUMS: Rwys 3, 300-2 or std. w/min. climb of 228’ per NM to 3000.
DEPARTURE PROCEDURE: Rwys 3, 29L/R, climbing right turn direct to TUS VORTAC ...
Rwy 21, climbing left turn direct to TUS VORTAC ...
Rwys 11L/R, climbing heading 123° to 4000 then climbing left turn direct TUS VORTAC ...
... Climb in TUS VORTAC holding pattern (hold NW, right turns, 128’ inbound) to 9000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rwys 3, multiple trees and sign beginning 1385’ from DER, 127’ left of centerline, up to 41’ AGL/2611’ MSL. Tree 2062’ from DER, 332’ right of centerline, 46’ AGL/2626’ MSL. Rwys 11L, vents 115’ from DER, 147’ left and right of centerline, 6’ AGL/2646’ MSL. Multiple bushes beginning 449’ from DER, 395’ left of centerline, up to 24’ AGL/2674’ MSL. Multiple bushes beginning 188’ from DER, 328’ right of centerline, up to 13’ AGL/2663’ MSL. Rwys 11R, tree 584’ from DER, 176’ right of centerline, 46’ AGL/2626’ MSL. Rwys 29L/R, tree 253’ from DER, 258’ left of centerline, up to 9’ AGL/2645’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 19059(FAA)

Rwy 3, heading as assigned by ATC; requires minimum climb of 300’ per NM to 4500. Rwys 11L/R, 21, heading as assigned by ATC. Rwys 29L, heading as assigned by ATC; requires minimum climb of 300’ per NM to 4500. Rwry 29R, heading as assigned by ATC; requires minimum climb of 300’ per NM to 4400.

VERNAL, UT
VERNAL RGNL (VEL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 17341 (FAA)
TAKEOFF MINIMUMS: Rwys 17, std. w/min. climb of 210’ per NM to 6000, or alternatively with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1800’ prior to DER or 2200-3 for VCOA. Rwys 35, std. w/min. climb of 410’ per NM to 7700 or 2200-3 for VCOA.
DEPARTURE PROCEDURE: Rwys 17, climbing left turn direct VEL VORTAC, thence ... Rwys 35, climbing right turn direct VEL VOR/DME, thence ... on VEL VOR/DME R-142 to ENSEN INT/VEL 9.7 DME and hold (hold SE, right turn, 322’ inbound).

Continue Climb-in-hold to the MEA/MCA for route of flight.

VCOA: Rwys 17, 35, obtain ATC approval for VCOA when requesting IFR clearance: Climb in visual conditions to cross Vernal RGNL Airport at or above 7300, then continue climb on VEL VOR/DME R-142 until reaching the MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES: Rwys 17, terrain beginning 19’ from DER, 140’ right of centerline, up to 5290’ MSL. Terrain and agricultural equipment beginning 118’ from DER, 191’ left of centerline, up to 6’ AGL/5284’ MSL. Trees beginning 1333’ from DER, 295’ left of centerline, 5315’ MSL. Trees beginning 1378’ from DER, 221’ left of centerline, 5317’ MSL. Trees beginning 1456’ from DER, 112’ left of centerline, 5318’ MSL. Trees beginning 1498’ from DER, 32’ left of centerline, 5320’ MSL. Poles beginning 1948’ from DER, 46’ right of centerline, up to 35’ AGL/5334’ MSL. Trees beginning 2411’ from DER, 19’ left of centerline, up to 5370’ MSL. Tree 2439’ from DER, 26’ right of centerline, up to 35’ AGL/5334’ MSL. Trees beginning 2497’ from DER, 290’ right of centerline, up to 5344’ MSL. Trees beginning 2511’ from DER, 105’ left of centerline, up to 5374’ MSL. Tree 2534’ from DER, 361’ right of centerline, 5356’ MSL. Tree 2553’ from DER, 355’ right of centerline, 5362’ MSL. Trees beginning 2573’ from DER, 323’ right of centerline, up to 5370’ MSL. Trees beginning 4620’ from DER, 71’ left of centerline, up to 5397’ MSL. Tree 4749’ from DER, 184’ right of centerline, 5401’ MSL. Tree 4895’ from DER, 65’ left of centerline, 5403’ MSL. Rwys 35, pole 178’ from DER, 153’ left of centerline, 5290’ MSL. Trees and pole beginning 934’ from DER, 625’ right of centerline, up to 5302’ MSL.

WENDOVER, UT
WENDOVER (ENV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7 16091 (FAA)
TAKEOFF MINIMUMS: Rwys 26, std. w/min. climb of 300’ per NM to 5900. Rwys 30, NA-ATC.
DEPARTURE PROCEDURE: Rwys 8, 12, 26, climbing left turn direct BVL VORTAC, thence ...continue climb in holding pattern (hold NE, right turns, 253° inbound) to cross BVL VORTAC at/above MEA for route of flight.

TAKEOFF OBSTACLE NOTES: Rwys 12, bush 92’ from DER, 258’ left of centerline, 4’ AGL/4227’ MSL. Rwys 26, tree 100’ from DER, 500’ right of centerline, 11’ AGL/4240’ MSL. Bush 90’ from DER, 278’ left of centerline, 4’ AGL/4233’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WILLCOX, AZ
COCHISE COUNTY (P33)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13122 (FAA)
TAKEOFF MINIMUMS: Use COCHISE DEPARTURE.

WINDOW ROCK, AZ
WINDOW ROCK (RQE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 03191 (FAA)
TAKEOFF MINIMUMS: Rw 2, 700-2 or std. with a min. climb of 500’ per NM to 8000. Rw 20, 600-2 or std. with a min. climb of 260’ per NM to 8200.

DEPARTURE PROCEDURE: Rw 2, turn right. Rw 20, turn left direct to GUP VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 2, terrain 3832’ from DER, 1025’ right of centerline, 6926’ MSL. Poles 5220’ from DER, 245’ right of centerline, 180’ AGL/6922’ MSL. Tower 7067’ from DER, 3072’ left of centerline, 7109’ MSL. Terrain 7449’ from DER, 1612’ left of centerline, 6991’ MSL. Terrain 8776’ from DER, 1851’ left of centerline, 7169’ MSL. Tree 9665’ from DER, 1326’ right of centerline, 7340’ MSL. Tree 11326’ from DER, 355’ left of centerline, 7351’ MSL. Rw 20, trees 1018’ from DER, 620’ left of centerline, 30’ AGL/6768’ MSL.

WINNEMUCCA, NV
WINNEMUCCA MUNI (WMC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 87295 (FAA)
TAKEOFF MINIMUMS: Rw 2, 2500-2 or std. with a min. climb of 450’ per NM to 6800. Rwys 14, 20, 3200-2 or std. with a min. climb of 520’ per NM to 7500.

DEPARTURE PROCEDURE: Rwys 14, 20, turn right. Rw 2, turn left. Rw 32, climb straight ahead. All aircraft climb via INA R-326 to 6700 or above within 12 NM, then climbing left turn return to INA VOR/DME via R-326. Continue climb in INA VOR/DME holding pattern (hold NW, right turns, 146° inbound) to depart INA VOR/DME at or above 11000. Southbound aircraft continue via INA R-146 direct Fresno Int. Northbound aircraft continue via INA R-326 and SDO R-144 direct SDO VORTAC.

WINNSLOW, AZ
WINNSLOW-LINDBERGH RGNL (INW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14345 (FAA)

DEPARTURE PROCEDURE: Rw 22, climb to 6000, then right turn direct INW VORTAC and hold, thence . . . Rw 4, climb to 6000, then left turn direct INW VORTAC and hold, thence . . . Rwys 11, 29, climb to 6000, then direct INW VORTAC and hold, thence . . . continue climb-in-hold (hold West, right turns, 068° inbound) to 8900 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rw 11, vehicle on road beginning 389’ from DER, 329’ right of centerline, 15’ AGL/4894’ MSL. Trees beginning 120’ from DER, 398’ right of centerline, 100’ AGL/4901’ MSL.

WINNSLOW, AZ (CON’T)
WINNSLOW-LINDBERGH RGNL (INW) (CON’T)

Rwy 11 (CON’T), tank 3681’ from DER, 1304’ right of centerline. 129’ AGL/5014’ MSL. Grain silo 2901’ from DER, 25’ right of centerline, up to 4957’ MSL. Obstruction light on hopper 2908’ from DER, 27’ right of centerline, up to 4955’ MSL. Chimney 2899’ from DER, 28’ right of centerline, up to 4953’ MSL. Light support structure 13’ from DER, 55’ left of centerline, up to 4871’ MSL. Light support structure 13’ from DER, 56’ right of centerline, up to 4871’ MSL. Vertical point 234’ from DER, 14’ left of centerline, up to 4876’ MSL. Rw 29, tree 332’ from DER, 589’ left of centerline 100’ AGL/4915’ MSL. Trees beginning 385’ from DER, 124’ right of centerline, 100’ AGL/4923’ MSL. Vehicle on road beginning 31’ from DER, 389’ right of centerline 15’ AGL/4920’ MSL. Reel abeam DER, 139’ left of centerline, up to 4904’ MSL. Bush 38’ from DER, 179’ right of centerline, up to 4903’ MSL. Pole 2132’ from DER, 1052’ right of centerline, up to 4956’ MSL. Vertical point 241’ from DER, 318’ right of centerline, up to 4907’ MSL. Ground 71’ from DER, 456’ left of centerline, up to 4902’ MSL. Rw 4, light 4’ from DER, 425’ left of centerline, up to 4920’ MSL. Obstruction light on righted windsock 12’ from DER, 424’ left of centerline, up to 4918’ MSL. Tree 34’ from DER, 263’ left of centerline, 100’ AGL/4901’ MSL. Tower 2740’ from DER, 1086’ left of centerline, up to 4968’ MSL. Ground 42’ from DER, 455’ left of centerline, up to 4892’ MSL. Rw 22, poles beginning 1575’ from DER, 360’ right of centerline, up to 5010’ MSL. Antenna 1867’ from DER 360’ right of centerline up to 5019’ MSL. Vehicle on road beginning 198’ from DER, 12’ right of centerline, 15’ AGL/4994’ MSL. Vehicle on road beginning 499’ from DER, 93’ left of centerline, 15’ AGL/4962’ MSL. Tree 1746’ from DER, 581’ right of centerline, 100’ AGL/4933’ MSL. Vertical point 31’ from DER, 479’ left of centerline, up to 4946’ MSL. Building 2525’ from DER, 528’ right of centerline, up to 4956’ MSL. Light support structures 10’ from DER, 54’ right of centerline, up to 4942’ MSL.

YUMA MCAS/ YUMA INTL (KNYL)
YUMA, AZ
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
18144


TAKEOFF OBSTACLE NOTES: Rw 3L, tower 5273’ from DER, 1539’ left of centerline, 335’ MSL. Tower 2689’ from DER, 1232’ left of centerline, 62 AGL/299’ MSL. Terrain 500’ left of DER, 194’ right of centerline, 190’ MSL. Terrain 500’ left of DER, 194’ right of centerline, 214’ MSL. Rw 3R, terrain 500’ right of DER, 208’ MSL. Rw 17, antenna 303’ from DER, 403’ right of centerline, 190’ MSL. Terrain 500’ left of DER, 184’ MSL. Rw 21L, TACAN antenna 705’ from DER, 286’ left of centerline, 220’ MSL. Par antenna 661’ from DER, 295’ right of centerline, 214’ MSL. Rw 26, pole 74’ from DER, 244’ right of centerline, 199’ MSL. Rw 35, sign 710’ from DER, 491’ right of centerline, 54’ AGL/244’ MSL. Pole 714’ from DER, 544’ right of centerline, 119’ AGL/231’ MSL. Billboard 747’ from DER, 562’ right of centerline, 225’ MSL. Terrain 500’ right of DER, 197’ MSL.

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

19227 L26 SW-4