

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

17089

INSTRUMENT APPROACH PROCEDURE CHARTS

## IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

### Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. 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.

#### NAME TAKEOFF MINIMUMS

##### BATTLE MOUNTAIN, NV

##### BATTLE MOUNTAIN (BAM)

##### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 3 09127 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. w/ a min climb of 282' per NM to 7300 or 4700-3 for climb in visual conditions. **Rwy 12**, std. w/ a min climb of 386' per NM to 7600 or 4700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8200 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 12**, climb heading 122° and BAM R-076 to 10000 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 21**, climb direct BAM VORTAC and BAM R-205 to 10100 before proceeding on course. **Rwy 30**, climb heading 302° and BAM R-324 to 9100 before proceeding on course.

#### NAME TAKEOFF MINIMUMS

##### BEAVER, UT

##### BEAVER MUNI (U52)

##### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES ORIG 07242 (FAA)

TAKEOFF MINIMUMS: **Rwys 7, 25**, NA-obstacles. **Rwys 13, 31**, 2600-23% for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb in visual conditions to cross Beaver Muni Airport Northwest bound at or above 8300 then climb to 10100 via MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210 KIAS until established on MLF VORTAC R-102.

##### 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... **Rwy 21**, turn right, 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.

17089

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## BRIGHAM CITY, UT

### BRIGHAM CITY (BMC)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

#### AMDT 6A 11349 (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.

NOTE: **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.

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.

## BULLHEAD CITY, AZ (CON'T)

NOTE: **Rwy 16**, grd 188' from DER, 83' 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 568' from DER, 490' left of centerline, up to 727' MSL. Bush 700' from DER, 663' right of centerline, 728' MSL. Grd 798' from DER, 466' left of centerline, 729' MSL. Bush, grd 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 1008' 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 824' 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-I 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. Poles, bushes, grd, vehicles on road, trees, bldgs, flagpole beginning 4024' 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-I 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 1079' MSL. Grd 2.6 NM from DER 3025' right of centerline, 2010' MSL.

30 MAR 2017 to 27 APR 2017

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17089

## CARSON CITY, NV

CARSON (CXP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 08325 (FAA)

TAKEOFF MINIMUMS: **Rwy 27**, NA-obstacles.  
DEPARTURE PROCEDURE: **Rwy 9**, use  
JIMPA DEPARTURE.

## CASA GRANDE, AZ

CASA GRANDE MUNI (CGZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1B 14037 (FAA)

TAKEOFF MINIMUMS: **Rwy 5**, 300-1 or std. w/  
min. climb of 354' per NM to 1700.DEPARTURE PROCEDURE: **Rwy 5**, climbing  
right turn direct TFD VORTAC, thence...**Rwy 23**, climb direct TFD VORTAC, thence...  
...continue climb in holding pattern (SW, right  
turns, 048° inbound) to MEA for direction of  
flight.NOTE: **Rwy 5**, pole 4034' from DER, 805' left of  
centerline, 109' AGL/1593' MSL.

## CEDAR CITY, UT

CEDAR CITY RGNL (CDC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 17005 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**, 4200-3 for VCOA. **Rwy 20**, std. w/  
min. climb of 290' per NM to 7300 or 4200-3 for VCOA. **Rwy 26**,  
std. w/min. climb of 255' per NM to 7000 or 4200-3 for VCOA.DEPARTURE PROCEDURE: **Rwys 2, 8**, climbing left turn direct  
EHK VOR/DME, thence... **Rwy 20, 26**, climbing right turn direct  
EHK VOR/DME, thence... ...continue climb on EHK VOR/DME R-  
287 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, then on EHK VOR/DME R-287 until reaching the MEA MCA  
for direction of flight.NOTE: **Rwy 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. **Rwy 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. 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 638'  
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 2918' from DER, 70' right of  
centerline, up to 62' AGL/5719' 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. **Rwy 20**, Rwy light 10' from DER, 54' right of  
centerline, 2' AGL/5579' MSL. Terrain 12' from DER, 98' left of  
centerline, 5579' MSL. Rwy light and sign beginning 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. Trees beginning  
1.2 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. Trees beginning 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. **Rwy 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.

30 MAR 2017 to 27 APR 2017

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17089

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## 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.

NOTE: **Rwy 4L**, antenna on building 69' from DER, 515' left of centerline, 25' AGL/1281' MSL. Tower 981' from DER, 615' left of centerline, 80' AGL/1319' MSL. Trees and poles beginning 1100' from DER, 458' left of centerline, up to 30' AGL/1272' MSL. **Rwy 4R**, poles beginning 1298' from DER, 56' left of centerline, up to 36' AGL/1283' MSL. **Rwy 22L**, tree 336' from DER, 511' right of centerline, 15' AGL/1250' MSL. Tree 988' from DER, 756' left of centerline, 30' AGL/1266' MSL. **Rwy 22R**, building 30' from DER, 441' right of centerline, 24' AGL/1254' MSL. Vehicles beginning 199' from DER, 271' right of centerline, up to 15' AGL/1246' MSL. Poles and trees beginning 471' from DER, 45' left of centerline, up to 36' AGL/1290' MSL. Trees and poles beginning 1088' from DER, 50' right of centerline, up to 36' AGL/1274' MSL.

#### DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 15232 (FAA)

**Rwys 4L, 4R, 22L, 22R**, heading as assigned by ATC.

## STELLAR AIRPARK (P19)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

DEPARTURE PROCEDURE: **Rwy 17**, turn left, climb via heading 150°. **Rwy 35**, turn right. **All aircraft** climb via TFD R-350 direct TFD VORTAC.

NOTE: **Rwy 17**, tower and signs beginning 574' from DER, 183' right of centerline, up to 50' AGL/1124' MSL. Sign 611' from DER, 365' left of centerline, 42' AGL/1214' MSL.

## CLIFTON/MORENCI, AZ

### GREENLEE COUNTY (CFT)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10210 (FAA)

DEPARTURE PROCEDURE: Use SAN SIMON DEPARTURE.

## COLORADO CITY, AZ

### COLORADO CITY MUNI (AZC)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 95089 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, NA.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

**Rwys 20, 29**, turn left. **All aircraft** climb to 7400 via the 160° bearing from AZC NDB then continue climb on course.

## 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.

## DAVIS-MONTHAN AFB (KDMA),

### TUCSON, AZ

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 14205

TAKEOFF MINIMUMS: **Rwy 12**, 5300-3, or standard with minimum climb of 234 ft/NM to 9700.

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 OBSTACLES: **Rwy 12**: Terrain 2707' MSL, 37' from DER, 415' left of centerline. Terrain 2707' MSL, 8' from DER, 424' left of centerline. Terrain 2707' MSL, 0' from DER, 500' left of centerline. Pole 45' AGL/2776' MSL, 3511' from DER, 1052' left of centerline. Vehicle 10' AGL/2727' MSL, 1710' from DER, 195' right of centerline. Vehicle 10' AGL/2727' MSL, 1498' from DER, 787' left of centerline. Aircraft tail 39' AGL/2748' MSL, 81' from DER, 572' left of centerline. **Rwy 30**: Terrain 2590' MSL, 34' from DER, 220' left of centerline. Terrain 2592' MSL, 0' from DER, 500' right of centerline. Terrain 2592' MSL, 13' from DER, 493' right of centerline. Pylon 86' AGL/ 2645' MSL, 3601' from DER, 1209' left of centerline. Pylon 98' AGL/2672' MSL, 4455' from DER, 332' left of centerline. Pylon 98' AGL/2665' MSL, 3771' from DER, 882' left of centerline. Pylon 98' AGL/2664' MSL, 4112' from DER, 606' left of centerline. Pylon 98' AGL/2665' MSL, 3416' from DER, 1169' left of centerline. Pylon 86' AGL/2658' MSL, 3296' from DER, 1373' left of centerline. Terrain 2591' MSL, 0' from DER, 500' left of centerline. Aircraft tail 39' AGL/2635' MSL, 34' inward of DER, 510' right of centerline.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

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## DELTA, UT

### DELTA MUNI (DTA)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG-A 16203 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, std. with a min. climb of 412' per NM to 6600, or 1800-3 for climb in visual conditions. VCOA procedure NA at night.

DEPARTURE PROCEDURE: **Rwy 35**, Climb heading 346 to 5800, then climbing left turn heading 180 and DTA VORTAC R-310 to DTA VORTAC, thence...

**Rwy 17**, Climb on DTA VORTAC R-347 to DTA VORTAC, thence... ..continue climb in DTA VORTAC holding pattern (hold s, lt, 004.00 inbound) to cross DTA VORTAC at or above MEA/MCA for route of flight.

VCOA: **Rwy 17**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Delta Municipal airport southbound at or above 6400, then on DTA VORTAC R-347 to DTA VORTAC, thence... ..continue climb in DTA VORTAC holding pattern (hold s, lt, 004° inbound) to cross DTA VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 35**, terrain 17' from DER, 66' left of centerline 4760' MSL. Vehicle on road 227' from DER, 457' right of centerline, 15' AGL/4771' MSL. **Rwy 17**, terrain 12' from DER, 462' left of centerline 4757' MSL. Bush 105' from DER, 446' left of centerline 4759' 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 9500. **Rwy 35**, climbing left turn to intercept DUG VORTAC R-286 to 9600.

NOTE: **Rwy 8**, trees and 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. **Rwy 17**, trees and terrain beginning 91' from DER, 76' left of centerline, up to 5' AGL/4118' MSL. Trees and terrain beginning 12' from DER, 146' right of centerline, up to 5' AGL/4115' MSL. **Rwy 26**, tree and terrain beginning 16' from DER, 233' left of centerline, up to 5' AGL/4167' MSL. Trees and terrain beginning 17' from DER, 32' right of centerline, up to 7' AGL/4167' MSL. **Rwy 35**, trees and terrain beginning 118' from DER, 15' left of centerline, up to 6' AGL/4190' MSL. Tree and terrain beginning 75' from DER, 100' right of centerline, up to 11' AGL/4200' MSL.

## DUCHESNE, UT

### DUCHESNE MUNI (U69)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG-A 16091 (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. **Rwy 6**, std. w/min. climb of 500' per NM to 7200, or 2000-3 for climb in visual conditions. **Rwy 24**, std. w/min. climb of 390' per NM to 8400, or 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6**, climb heading 057° to 6500, then climbing right turn direct BQU VOR/DME, thence... **Rwy 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.

VCOA: **Rwy 6, 24**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Elko Rgnl airport at or above 7000, then proceed to BQU VOR/DME and 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.

NOTE: **Rwy 6**, OL on lrd wsk 253' from DER, 155' right of centerline, 5095' MSL. Lt poles, beginning 277' from DER, 332' right of centerline, up to 5097' MSL. Trees, buildings, and ants on ol buildings, beginning 676' from DER, 209' right of centerline, up to 5111' MSL. Pole 765' from DER, 422' left of centerline, 5110' MSL. Ols on poles, beginning 903' from DER, 435' left of centerline, up to 5130' MSL. Trees, poles, and ols on poles, beginning 961' from DER, 130' left of centerline, up to 5207' MSL. Ant 3007' from DER, 84' right of centerline, 5165' MSL. Tree 3676' from DER, 251' right of centerline, 5191' MSL. **Rwy 24**, vehicles on road, beginning 672' from DER, 315' right of centerline, up to 5075' MSL. Poles, trees beginning 1179' from DER, 171' right of centerline, up to 36' AGL/5100' MSL. Poles, beginning 1243' from DER, 663' left of centerline, up to 39' AGL/5085' MSL. Signs, beginning 1566' from DER, 714' right of centerline, up to 5128' MSL. Signs, elevators, silos beginning 2155' from DER, 437' right of centerline, up to 44' AGL/5132' MSL.

## ELY, NV

### ELY AIRPORT-YELLAND FIELD (ELY)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 2 11181 (FAA)

DEPARTURE PROCEDURE: use ELY DEPARTURE.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

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

17089

## EUREKA, NV

EUREKA (05U)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

ORIG 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, NA-Terrain.DEPARTURE PROCEDURE: use MINES (RNAV)  
DEPARTURE.

## FALLON, NV

FALLON MUNI (FLX)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 10154 (FAA)

DEPARTURE PROCEDURE: **Rwy 21**, climbing right  
turn...**Rwys 3, 13, 31**, climbing left turn......to 9300 direct HZN VORTAC, continue climb in HZN  
VORTAC holding pattern (West, left turns, 075°  
inbound) cross HZN VORTAC at or above 9300 before  
proceeding on course, continue climb to MEA or  
assigned altitude.NOTE: **Rwy 3**, vehicle on road 39' from DER, 306'  
right of centerline, 15' AGL/3971' MSL. Tree 111' from  
DER, 424' left of centerline 25' AGL/3988' MSL. Tree  
364' from DER, 272' right of centerline, 25' AGL/3988'  
MSL. **Rwy 13**, trees beginning 3' from DER, 494'  
right of centerline, up to 25' AGL/4021' MSL. Vehicle  
on road beginning 22' from DER, 80' left of centerline,  
up to 15' AGL/3978' MSL. **Rwy 21**, vehicle on road  
477' from DER, 241' left of centerline, 15' AGL/3984'  
MSL. Tree 710' from DER, 75' left of centerline, 25'  
AGL/3994' MSL. **Rwy 31**, trees beginning 52' from  
DER, 159' right of centerline, up to 25' AGL/3975'  
MSL. Trees beginning 111' from DER, 140' left of  
centerline, up to 25' AGL/3981' MSL.

## FALLON NAS(VAN VOORHIS FLD)(KNFL)

FALLON, NV

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

15008

TAKE-OFF MINIMUMS: **Rwy 13L/R**, Diverse  
departures authorized 131° CW 311°, standard with  
minimum climb rate of 245 ft/NM to 7200. **Rwy 31L/R**,  
Diverse departures authorized 131° CW 083°,  
standard with minimum climb rate of 252 ft/NM to  
9800. **Rwy 7**, Diverse departures authorized, standard  
with minimum climb rate of 295 ft/NM to 12,200. **Rwy 25**,  
Diverse departures authorized 132° CW 073°,  
standard with minimum climb rate of 250 ft/NM to  
12,200.TAKE-OFF OBSTACLES: **Rwy 31R**, tower 766' from  
DER, 459' left of centerline, 18' AGL/3950' MSL.

## 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 cross  
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.NOTE: **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 13' AGL/5012' MSL.  
Beacon 311' from DER, 505' left of centerline, 52'  
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, 38' 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 climb on course. All others climb southbound on  
FLG R-172 to 9000, then climbing left turn direct FLG  
VOR/DME.NOTE: **Rwy 21**, trees beginning 73' from DER, left and  
right of centerline, up to 85' AGL/7065' MSL.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

17089

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

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

## FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF (FHU)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 16343 (FAA)

TAKEOFF MINIMUMS: **Rwy 21**, NA - Terrain. **Rwy 26**, std. w/min. climb of 330' per NM to 7300.

DEPARTURE PROCEDURE: **Rwys 3,8,12**, climbing left turn, thence...

**Rwys 26,30**, climbing right turn, thence...

... **All aircraft**, intercept FHU VOR/DME R-021 or bearing 018° from DAO NDB to TOMBS INT, continue climb in TOMBS holding pattern (hold N, left turns, 201° inbound to FHU VOR/DME or 198° inbound to DAO NDB) to 9500 before proceeding on course.

NOTE: **Rwy 3**, trees 253' from DER, 130' left of centerline, 10' AGL/4595' MSL. Tree 199' from DER, 271' right of centerline, 10' AGL/4595' 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**, reflector and terrain beginning 102' from DER, 173' left of centerline, up to 4' AGL/4747' MSL. Reflector 101' from DER 173' right of centerline, 4' AGL/4723' MSL. **Rwy 30**, multiple bushes beginning 334' from DER, 112' left of centerline, up to 15' AGL/4626' MSL. Bush 132' from DER, 198' right of centerline, 16' AGL/4627' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 14317 (FAA)

**Rwys 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 330' per NM to 8100. **Rwy 30**, heading as assigned by ATC. Requires minimum climb of 330' per NM to 8700.

## GLENDALE, AZ

GLENDALE MUNI (GEU)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14317 (FAA)

DEPARTURE PROCEDURE: Use DRAKE (RNAV) DEPARTURE.

## GLOBE, AZ

SAN CARLOS APACHE (P13)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.

## GOODYEAR, AZ

PHOENIX GOODYEAR (GYR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14317 (FAA)

DEPARTURE PROCEDURE: Use POTER (RNAV) DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 16203 (FAA)

**Rwy 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: **Rwy 3**, NA-environmental.

DEPARTURE PROCEDURE: **Rwy 21**, use GRAND DEPARTURE.

## VALLE (40G)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 14621 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, Climb on a heading between 188° CW to 091° from DER. **Rwy 19**, climb on a heading between 170° CW to 008° from DER.

## HEBER, UT

HEBER CITY MUNI-RUSS MCDONALD

FIELD (36U)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3A 14149 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22**, 5800-3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 4**, for climb in visual conditions, cross Heber City Muni-Russ McDonald Field at or above 11300 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 22**, for climb in visual conditions, cross Heber City Muni-Russ McDonald Field at or above 11300 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 4**, multiple trees, bushes, poles, buildings, vehicles, terrain, sign, fence, and wind sock beginning 20' from DER, left and right of centerline, up to 100' AGL/5708' MSL. **Rwy 22**, multiple trees beginning 608' from DER, left and right of centerline, up to 100' AGL/6411' MSL. Multiple bushes, poles, terrain and fence beginning 12' from DER, 225' left of centerline, up to 25' AGL/6344' MSL.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

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

## 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 2A 09295 (FAA)

TAKEOFF MINIMUMS: **Rwys 18, 26, 36**, NA. **Rwy 30**, 1700-3 or std. with a min. climb of 300' per NM to 8100.

DEPARTURE PROCEDURE: **Rwys 8, 12**, climbing left turn direct PUC VOR/DME...

**Rwy 30**, climbing right turn direct PUC VOR/DME....

...continue climb in PUC VOR/DME holding pattern (hold S, right turns, 009° inbound) to MEA for direction of flight.

NOTE: **Rwy 8**, tree 2663' from DER, 922' left of centerline, 40' AGL/5979' MSL. **Rwy 12**, tree 333' from DER, 132' right of centerline, 40' AGL/5919' MSL.

**Rwy 30**, tree 2065' from DER, 875' left of centerline, 40' AGL/5999' MSL.

## KANAB, UT

KANAB MUNI (KNB)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 10042 (FAA)

TAKEOFF MINIMUMS: **Rwy 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: **Rwy 19**, climb heading 171° to 6800 before turning. **Rwy 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.

NOTE: **Rwy 1**, vent on building 554' from DER, 370' left of centerline, 16' AGL/4884' MSL. Trees beginning 1138' from DER, 302' left of centerline, up to 100' AGL/5939' MSL. Rising terrain and trees beginning 1.68 NM from DER, 247' right of centerline, up to 100' AGL/5239' MSL. Rising terrain and trees beginning 1.76 NM from DER, 766' left of centerline, up to 100' AGL/5599' MSL. Rising terrain beginning 3.5 NM from DER, left and right of centerline, up to 6359' MSL. **Rwy 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

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. If 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 OBSTACLES:

**Rwy 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: **Rwy 14**, std. w/min. climb of 465' per NM to 4800, or 1500-3 for climb in visual conditions.

**Rwy 32, 600-134'** w/min. climb of 492' per NM to 1100, or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 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 ...

**Rwy 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.

NOTE: **Rwy 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/890' 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. **Rwy 32**, trees 1544' from DER, 416' right of centerline, up to 44' AGL/793' MSL.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017



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

## LAS VEGAS, NV

### HENDERSON EXECUTIVE (HND)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

ORIG 05132 (FAA)

TAKEOFF MINIMUMS: **Rwy 17L/R**, Cat A/B std. with a min. climb of 491' per NM to 6000, or 2100-3 for climb in visual conditions, Cat C/D NA. **Rwy 35L/R**, Cat A/B std. with a min. climb of 312' per NM to 4700, or 2100-3 for climb in visual conditions, Cat C/D NA.

DEPARTURE PROCEDURE: **Rwy 17L/R**, climbing right turn via LAS R-157 to LAS VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC. **Rwy 35L/R**, climbing right turn via BLD R-257 to BLD VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC.

NOTE: **Rwy 17L**, tree 5610' from DER, 82' left of centerline, 100' AGL/2739' MSL. Tree 1.9 miles from DER, 1495' left of centerline, 100' AGL/2859' MSL. **Rwy 17R**, tree 4041' from DER, 859' left of centerline, 100' AGL/2739' MSL.

## MCCARRAN INTL (LAS)

### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 7 16315 (FAA)

TAKEOFF MINIMUMS: **Rwys 1R, 7L/R, 19R**, std **Rwy 1L**, 300 -1 or std. w/min. climb of 264' per NM to 2300. **Rwy 19L**, 300 -1½ or standard w/min. climb of 231' per NM to 2400. **Rwy 25R**, 300-2 or standard w/min. climb of 270' per NM to 2400. **Rwy 25L**, 300-1½ or std. w/min. climb of 209' per NM to 2400.

DEPARTURE PROCEDURE: **Rwys 1L/R**, climbing right turn direct BLD VORTAC before proceeding on course. **Rwys 7L/R**, climb heading 075° to 3700, then climbing right turn direct BLD VORTAC before proceeding on course. **Rwys 25 L/R**, climb heading 255° to 2800, then climbing right turn direct BLD VORTAC before proceeding on course. **Rwys 19 L/R**, climbing left turn via heading 120° and BLD R-257 direct BLD VORTAC before proceeding on course.

NOTE: **Rwy 25R**, Ol on DME, NAVAID, bldg beginning 533' from DER, 367' left of centerline, up to 2206' MSL. NAVAID, ol on LOC beginning 533' from DER, on centerline, up to 5' AGL/2195' MSL. Vehicle on road 665' from DER, crossing centerline, 2208' MSL. Pole 785' from DER, 592' left of centerline, 2218' MSL. Pole, tree beginning 785' from DER, 8' left of centerline, up to 2220' MSL. Trees beginning 820' from DER, 49' right of centerline, up to 25' AGL/2214' MSL. Pole, sign, tree, bldg beginning 873' from DER, 348' left of centerline, up to 37' AGL/2234' MSL. Trees beginning 952' from DER, 48' right of centerline, up to 2233' MSL. Pole, tree, railroad beginning 1092' from DER, 531' left of centerline, up to 38' AGL/2237' MSL. Trees beginning 1559' from DER, 554' right of centerline, up to 2259' MSL. Tree, bldg, railroad beginning 1811' from DER, 192' left of centerline, up to 2246' MSL. Bldg 2500' from DER, 882' left of centerline, 2254' MSL. Pole beginning 3001' from DER, 544' left of centerline, up to 44' AGL/2271' MSL. Pole beginning 3004' from DER, 770' left of centerline, up to 48' AGL/2277' MSL. Pole beginning 3116' from DER, 1021' right of centerline, up to 2309' MSL. Sign beginning 3338' from DER, 279' left of centerline, up to 2286' MSL. Communication twr 4521' from DER, 703' right of centerline, 2332' MSL. Pole 1.4 NM from DER, 2804' left of centerline, 100' AGL/2444' MSL. Pole beginning 1.5 NM from DER, 2835' left of centerline, up to 100' AGL/2455' MSL. Pole, communication twr beginning 1.6 NM from DER, 2072' left of centerline, up to 100' AGL/2463' MSL. Pole 1.7 NM from DER, 2964' left of centerline, 135' AGL/2469' MSL.

## LAS VEGAS, NV (CON'T)

### MCCARRAN INTL (LAS)

NOTE: **Rwy 25L**, bldg 1002' from DER, 250' left of centerline, 6' AGL/2183' MSL. Railroad, pole beginning 1856' from DER, 794' left of centerline, up to 2215' MSL. Railroad 2067' 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 2375' from DER, 781' left of centerline, up to 2232' MSL. Tree, railroad beginning 2527' from DER, 751' left of centerline, up to 2233' MSL. Pole 2860' from DER, 812' left of centerline, 36' AGL/2238' MSL. Pole beginning 3166' from DER, 1092' left of centerline, up to 34' AGL/2243' MSL. Pole beginning 3312' from DER, 1201' left of centerline, up to 35' AGL/2246' MSL. sign, pole, t-l twr beginning 3672' from DER, 146' left of centerline, up to 2256' MSL. Pole beginning 4223' from DER, 1394' left of centerline, up to 2274' MSL. Bldg 4554' from DER, 1594' left of centerline, 2277' MSL. Bldg 4686' from DER, 1686' left of centerline, 53' AGL/2279' MSL. Bldg 4718' from DER, 1756' left of centerline, 61' AGL/2290' MSL. Bldg 4953' from DER, 1696' left of centerline, 61' AGL/2291' MSL. Trmsn twr 5469' from DER, 1057' left of centerline, 2297' MSL. Pole beginning 5703' from DER, 2020' right of centerline, up to 101' AGL/2309' MSL. Pole 5887' from DER, 1923' left of centerline, 45' AGL/2311' MSL. Pole 5889' from DER, 1722' left of centerline, 46' AGL/2311' MSL. Tower 1 NM from DER, 1845' left of centerline, 80' AGL/2332' MSL. Rwy 1L, REIL 23' from DER, 153' left of centerline, 3' AGL/2090' MSL. Sign beginning 1037' from DER, 694' left of centerline, up to 2125' MSL. Bldg 1556' from DER, 551' left of centerline, 2129' MSL. Bldg 1779' from DER, 648' left of centerline, 2147' MSL. Bldgs beginning 1907' from DER, 186' left of centerline, up to 2150' MSL. Bldgs beginning 1977' from DER, 214' left of centerline, up to 2150' MSL. Bldgs beginning 1983' from DER, 251' left of centerline, up to 2150' MSL. Bldg 2093' from DER, 333' left of centerline, 78' AGL/2150' MSL. Bldgs beginning 2095' from DER, 274' left of centerline, up to 83' AGL/2153' MSL. Bldgs beginning 3953' from DER, 1396' left of centerline, up to 162' AGL/2226' MSL. Bldg 4126' from DER, 1089' left of centerline, 2229' MSL. Bldg 4542' from DER, 1399' left of centerline, 183' AGL/2240' MSL. Bldg 4604' from DER, 1365' left of centerline, 186' AGL/2243' MSL.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

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

## LAS VEGAS, NV (CON'T)

### MCCARRAN INTL (LAS)

NOTE: **Rwy 1R**, sign 1336 from DER, 447' left of centerline, 60' AGL/2122' MSL. Bldg 609' from DER 539' right of centerline, 28' slg/2095' MSL. **Rwy 19R**, bldg 609' from DER, 538' right of centerline, 28' AGL/2095' MSL. Sign 1336' from DER, 447' right of centerline, 60' AGL/2122' MSL. **Rwy 19L**, grd 60' from DER, 475' right of centerline, 2186' MSL. Grd 151' from DER, 529' right of centerline, 2190' MSL. Bldg beginning 193' from DER, 443' right of centerline, up to 9' AGL/2199' MSL. Ol on DME, NAVAID beginning 261' from DER, 407' right of centerline, up to 2206' MSL. Vehicles on rd, control box beginning 348' from DER, 41' right of centerline, up to 2208' MSL. Pole, vehicles on rd beginning 502' from DER, 434' right of centerline, up to 2218' MSL. Pole, sign, vehicles on rd, flgpl, fence beginning 592' from DER, 277' right of centerline, up to 37' AGL/2234' MSL. Sign, bldg, pole, tree beginning 844' from DER, 265' right of centerline, up to 41' AGL/2240' MSL. tower, fence, sign beginning 961' from DER, 175' right of centerline, up to 41' AGL/2243' MSL. t-twr, pole, rr, rr crossing sign, vehicles on parking lot beginning 1132' from DER, 7' right of centerline, up to 47' AGL/2249' MSL. Railroad beginning 1219' from DER, 448' left of centerline, up to 2225' MSL. Rr, pole beginning 1247' from DER, 76' left of centerline, up to 2226' MSL. Tree, poles, sign beginning 1392' from DER, 14' left of centerline, up to 36' AGL/2238' MSL. Poles, tree, vehicles on parking lot, bldg beginning 1726' from DER, 10' right of centerline, up to 2254' MSL. Pole, tree beginning 1822' from DER, 79' left of centerline, up to 34' AGL/2243' MSL. Ol, tree beginning 1935' from DER, 12' left of centerline, up to 36' AGL/2245' MSL. Pole, tree beginning 2036' from DER, 5' left of centerline, up to 35' AGL/2246' MSL. Poles, bldgs, tree beginning 2043' from DER, 220' right of centerline, up to 2255' MSL. Pole, tree beginning 2133' from DER, 20' left of centerline, up to 36' AGL/2247' MSL. Tree, poles, sign, bldg beginning 2146' from DER, 13' right of centerline, up to 2259' MSL. Pole, bldg, tree beginning 2234' from DER, 13' left of centerline, up to 35' AGL/2249' MSL. Pole, tree beginning 2335' from DER, 88' left of centerline, up to 36' AGL/2250' MSL. Sign, tree, pole, bldg. beginning 2381' from DER, 38' left of centerline, up to 41' AGL/2257' MSL. Pole, bldg, tree, bldg beginning 2496' from DER, 5' right of centerline, up to 2274' MSL. Bldgs beginning 2738' from DER, 196' right of centerline, up to 57' AGL/2279' MSL. Bldg, tree beginning 2766' from DER, 73' right of centerline, up to 57' AGL/2280' MSL. Bldgs beginning 2767' from DER, 45' left of centerline, up to 36' AGL/2258' MSL. Bldgs, tree beginning 2893' from DER, 6' right of centerline, up to 2288' MSL. Bldgs beginning 2895' from DER, 3' left of centerline, up to 39' AGL/2262' MSL. Bldgs, tree beginning 3032' from DER, 300' right of centerline, up to 61' AGL/2290' MSL. Bldgs, tree, pole beginning 3076' from DER, 57' right of centerline, up to 61' AGL/2291' MSL. Bldgs, sign, poles beginning 3459' from DER, 286' right of centerline, up to 74' AGL/2302' MSL. Bldg 3495' from DER, 54' left of centerline, 52' AGL/2278' MSL. Comm twr 5717' from DER, 157' left of centerline, 80' AGL/2327' MSL. Bldg 5358' from DER, 1759' left of centerline, 110' AGL/2334' MSL. **Rwy 7L**, pole 744' from DER, 442' right of centerline, 30' AGL/2057' MSL. Tree 758' from DER, 168' right of centerline, 2068' MSL. Tree 768' from DER, 589' left of centerline, 2060' MSL. Tree 850' from DER, 184' left of centerline, 2067' MSL. Trees, beginning 886' from DER, 372' right of centerline, up to 2074' MSL. **Rwy 7R**, tower 1457' from DER, 849' left of centerline, 64' AGL/2097' MSL.

## LAS VEGAS, NV (CON'T)

### NORTH LAS VEGAS (VGT)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 3 08045 (FAA)

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.

## 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

ORIG-C 16231 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 2300-2 or std. with a min. climb of 300' per NM to 6200. **Rwy 8**, 1100-1 or std. with a min. climb of 250' per NM to 5000. **Rwys 20, 26**, 2300 -2 or std. with a min. climb of 260' per NM to 6200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right.

**Rwys 8, 20, 26**, turn left, climb direct LLC VORTAC. Aircraft departing 330° CW 359° climb via LLC R-333 to ROBUD INT; 360° CW 089° climb in LLC VORTAC holding pattern (hold NW, left turn, 153° inbound) to depart LLC VORTAC at or above 8600; 090° CW 219° climb on course; 220° CW 329° climb in LLC VORTAC holding pattern to depart LLC VORTAC at or above 8600. Continue climb on course to MEA or assigned altitude.

NOTE: **Rwy 2**, sign 17' from DER, 199' left of centerline, 2' AGL/3909' MSL. Bushes and tree beginning 13' from DER, 140' right of centerline, up to 3912' MSL. **Rwy 8**, bushes beginning 56' from DER, 172' left of centerline, up to 3911' MSL. **Rwy 20**, bushes beginning 47' from DER, 112' left of centerline, up to 3910' MSL. **Rwy 26**, bush 67' from DER, 239' left of centerline, 3906' MSL. Tree 258' from DER, 531' left of centerline, 3917' MSL. Terrain 15' from DER, 170' right of centerline, 3905' MSL.

## LUKE AFB (KLUF),

### GLENDAL, AZ

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 4 14009

DEPARTURE PROCEDURE: **Rwy 3L, 3R**, Climb heading 030° to LUF 4 DME, then climbing left turn on a heading between 320° CW to 360° from DER. Expect RADAR vectors on course from Luke RAPCON. **Rwy 21L, 21R**, Climb heading 210° to LUF 8 DME, then climb on a heading between 180° CW to 222° from DER. Expect RADAR vectors on course from Luke RAPCON.

TAKE-OFF OBSTACLES: **Rwy 3L**: Taxiing aircraft, 19' AGL/1123' MSL, 1221' from DER, 782' left of centerline. Taxiing aircraft, 19' AGL/1123' MSL, 1407' from DER, 609' left of centerline. **Rwy 21L**: Taxiing aircraft, 38' AGL/1117' MSL, 1428' from DER, 774' left of centerline.

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

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

## MARANA, AZ

### MARANA RGNL(AVQ)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

#### ORIG-A 13234 (FAA)

TAKEOFF MINIMUMS: **Rwys 3, 12**, N/A-Obstacles  
DEPARTURE PROCEDURE: **Rwy 21**, climb to 6500  
via heading 360° and TUS R-308 to TOTEC Int/TUS  
57 DME, then as filed. **Rwy 30**, climb to 6500 via  
heading 303° intercept TUS R-308 above 3500, to  
TOTEC INT/TUS 57 DME, then as filed.

NOTE: **Rwy 21**, road 53' from DER, 413' left of  
centerline, 15' AGL/2035' MSL. Tree 800' from DER,  
695' left of centerline, 32' AGL/2043' MSL. Multiple  
trees and poles beginning 518' from DER, 190' right of  
centerline, up to 38' AGL/2049' MSL. **Rwy 30**, multiple  
trees beginning 148' from DER, 275' right of centerline,  
up to 19' AGL/2020' MSL.

## MESA, AZ

### FALCON FIELD (FFZ)

#### 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 22L/R**, Heading as  
assigned by ATC.

## MICHAEL AAF (KDPG),

### DUGWAY PROVING

#### GROUND, UT

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

#### AMDT 2 12236

DEPARTURE PROCEDURES: **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 Milford 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.

NOTE: **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: **Rwys 12,16,30**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 34**, use MINDEN  
(RNAV) DEPARTURE.

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND

17089

## DIVERSE VECTOR AREA (RADAR VECTORS)

### MOAB, UT

#### CANYONLANDS FIELD (CNY)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 14037 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. with a min. climb of 320' per NM to 5800. **Rwy 21**, std. with a min. climb of 330' per NM to 5400.

DEPARTURE PROCEDURE: **Rwy 3**, turn left, thence...**Rwy 21**, turn right, thence...

...climb to 6700 on OAB R-293, then climbing right turn direct OAB VOR/DME. Climb in OAB holding pattern (NW, left turns, 113° inbound) to 10000 then proceed on course.

NOTE: **Rwy 3**, tree 4383' from DER, 1507' right of centerline, 50' AGL/4729' MSL. Road 1749' from DER, 905' left of centerline, 15' AGL/4635' MSL. Tree 3914' from DER, 1166' right of centerline, 50' AGL/4690' MSL. Tree 1.25 NM from DER, 400' right of centerline, 50' AGL/4758' MSL. **Rwy 21**, pole 2026' from DER, 78' right of centerline, 80' AGL/4625' MSL. Pole 2061' from DER, 40' right of centerline, 80' AGL/4625' MSL. Pole 2095' from DER, 857' right of centerline, 80' AGL/4623' MSL. Pole 1980' from DER, 344' right of centerline, 80' AGL/4602' MSL.

### NEPHI, UT

#### NEPHI MUNI (U14)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11293 (FAA)

DEPARTURE PROCEDURE: Use NEPHI DEPARTURE.

### NOGALES, AZ

#### NOGALES INTL (OLS)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 09351 (FAA)

TAKEOFF MINIMUMS: Use NOGALES DEPARTURE.

### OGDEN, UT

#### OGDEN-HINCKLEY (OGD)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 08101 (FAA)

TAKEOFF MINIMUMS: **Rwys 7, 16**, NA- Obstacles.  
DEPARTURE PROCEDURE: **Rwys 3, 21, 25, 34**, Use  
EMONT DEPARTURE.

### PAGE, AZ

#### PAGE MUNI (PGA)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 16203 (FAA)

TAKEOFF MINIMUMS: **Rwy 7, 25**, NA – obstacles.

**Rwy 15**, std. w/ min. climb of 285' per NM to 6500, or  
3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 33**, Climb heading 336° to 6000, then climbing left turn direct PGA VOR/DME, thence... **Rwy 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: **Rwy 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.

NOTE: **Rwy 15**, rising terrain 192' from DER, 272' right of centerline, 4323' MSL.

### NELLIS AFB (KLSV)

#### LAS VEGAS, NV

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1, 17089

TAKEOFF MINIMUMS: **Rwy 3L/R**, 3,600-3 SR-SS or std with min climb of (Mil) 285 ft/NM to 6200 (Civ) 325 ft/NM to 6600. **Rwy 21L/R**, 10,100-3 SR-SS.

DEPARTURE PROCEDURE: **Rwy 3L/R**, climb hdg 050°. **Rwy 21L/R**, diverse departure NA.

TAKE-OFF OBSTACLES: **Rwy 3L**, potential vehicles on road 1322' from DER, 801' left of cntrl, 15' AGL/1901' MSL. Potential C-5 on taxiway 216' inward of DER, 390' right of cntrl, 65' AGL/1934' MSL. **Rwy 3R**, potential C-5 on taxiway 147' inward of DER, 610' left of cntrl, 65' AGL/1934' MSL. **Rwy 21L**, potential C-5 on taxiway 38' inward of DER, 580' left of cntrl, 65' AGL/1890' MSL. Potential C-5 on taxiway 89' inward of DER, 521' right of cntrl, 65' AGL/1895' MSL. Trees 1387' from DER, 744' left of cntrl, 49' AGL/1871' MSL. Trees 2138' from DER, 478' left of cntrl, 44' AGL/1866' MSL. Trees 1022' from DER, 800' left of cntrl, 46' AGL/1868' MSL. **Rwy 21R**, tower 1157' from DER, 1135' right of cntrl, 100' AGL/1939' MSL. Tower 1462' from DER, 1135' right of cntrl, 100' AGL/1938' MSL. Potential C-5 on taxiway 89' inward of DER, 454' left of cntrl, 65' AGL/1896' MSL. Potential C-130 on taxiway 39' inward of DER, 384' right of cntrl, 39' AGL/1877' MSL.

#### DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG, 17061

**Rwy 3L/R**, N/A-terrain. **Rwy 21L/R**, hdg as assigned by ATC; requires min climb of 290 (Mil)/300 (Civ) ft/NM until 14,000.

17089

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND



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



17089

## PANGUITCH, UT

### PANGUITCH MUNI (U55)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11153 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, std. w/min. climb of 350' per NM to 9200 or 2200-3 for climb in visual conditions. **Rwy 36**, std. w/min. climb of 450' per NM to 9500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 185° to 9200 then left turn to intercept BCE VORTAC R-274, continue climb to 12000 to BCE VORTAC, or for climb in visual conditions: cross Panguitch Muni Airport southeast bound at or above 8800' MSL then via BCE R-320 to BCE VORTAC thence ... **Rwy 36**, climb heading 005° to 9500 then left turn to intercept BCE VORTAC R-323 (V257), continue climb to 12000 to BCE VORTAC, or for climb in visual conditions: cross Panguitch Muni Airport southeast bound at or above 8800' MSL then via BCE R-320 to BCE VORTAC thence...

...continue climb in BCE VORTAC holding pattern (hold southwest, right turn, 045° inbound) to cross BCE VORTAC at or above MEA for route of flight.

NOTE: **Rwy 36**, terrain 64' from DER, 426' right of centerline, 6775' MSL. Terrain 426' from DER, 565' right of centerline, 6779' MSL. **Rwy 18**, terrain beginning 114' from DER, 306' left of centerline, 6758' MSL. Terrain 26' from DER, 229' left of centerline 6756' MSL. Terrain 388' from DER, 91' left of centerline 6766' MSL. Terrain 316' from DER, 321' left of centerline 6766' MSL.

## PARKER, AZ

### AVI SUQUILLA (P20)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 14261 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/min. climb of 275' per NM to 2700 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading 012° to 1400 then climbing right turn to intercept PKE VORTAC R-067 to PKE VORTAC. **Rwy 19**, climbing right turn to intercept PKE VORTAC R-067 to PKE VORTAC.

VCOA: **Rwy 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 1A 12320 (FAA)

TAKEOFF MINIMUMS: **Rwy 6**, std. w/min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions.

**Rwy 24**, std. w/min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 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.

NOTE: **Rwy 6**, tree 197' from DER, 118' right of centerline, up to 12' AGL/5170' MSL. Bush 83' from DER, 99' right of centerline, up to 3' AGL/5161' MSL.

**Rwy 24**, bush 15' from DER, 133' right of centerline, 6' AGL/5148' MSL. Tree 320' from DER, 183' 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 5 05300 (FAA)

DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.

## 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.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

17089



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





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



17089

## PHOENIX, AZ (CON'T)

### PHOENIX SKY HARBOR INTL (PHX)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 6 14261 (FAA)

TAKEOFF MINIMUMS: **Rwy 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. **Rwy 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.

NOTE: **Rwy 7R**, transmission towers and power lines, 3201' from DER, 1122' right of centerline, up to 131' AGL/1260' MSL. **Rwy 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. **Rwy 25L**, multiple light poles, beginning 681' from 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. **Rwy 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, 578' 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. **Rwy 25L**, heading as assigned by ATC; requires minimum climb of 305' per NM to 6000. **Rwy 25R**, heading as assigned by ATC; requires minimum climb of 325' per NM to 6000. **Rwy 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 1 10042 (FAA)

DEPARTURE PROCEDURE: use PHOENIX DEPARTURE.

### DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 15232 (FAA)

**Rwy 12L, 12C, 12R**, as assigned by ATC; requires minimum climb of 250' per NM to 3100. **Rwy 30L, 30C, 30R**, heading as assigned by ATC.

## PRESCOTT, AZ

### ERNEST A LOVE FIELD (PRC)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 4 14093 (FAA)

DEPARTURE PROCEDURE: Use PRESCOTT DEPARTURE.

### DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 16007 (FAA)

**Rwy 3L/R**, Heading as assigned by ATC. **Rwy 12**, Heading as assigned by ATC; requires minimum climb of 370' per NM to 7700. **Rwy 21L/R**, Heading as assigned by ATC; requires minimum climb of 390' per NM to 8300. **Rwy 30**, Heading as assigned by ATC.

## PRICE, UT

### CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 5 15064 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/min. climb of 400' per NM to 6800 or 3300-3 for climb in visual conditions.

**Rwy 8, NA** - obstacles. **Rwy 33**, std. w/min. climb of 370' per NM to 6700 or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb to 6400 then climbing right turn on a heading between 144° CW to 187°, maintain 210 KIAS until completion of turn, thence . . .

**Rwy 15**, climb on a heading between 129° CW to 196°, thence . . .

**Rwy 19**, climb on a heading between 195° CCW to 128°, thence . . .

**Rwy 26**, climb on a heading between 179° CCW to 127°, thence . . .

**Rwy 33**, climb to 6300 then climbing left turn on a heading between 178° CCW to 148°, thence . . .  
. . . continue climb to assigned altitude for direction of flight.

VCOA: **Rwys 1, 33**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Carbon County RGNL airport/Buck Davis Field at or above 9100 before proceeding on course.

NOTE: **Rwy 1**, multiple trees and poles beginning 164' from DER, left and right of centerline, up to 64' AGL/6207' MSL.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

17089



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



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

## PROVO, UT

### PROVO MUNI (PVU)

DEPARTURE PROCEDURE: Use PROVO  
DEPARTURE.

## 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. **Rwy 26**, 1900-2 or std. with a min. climb of 410' per NM to 7200. **Rwy 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. **Rwy 14**, left turn climb direct FMG VORTAC. **Rwy 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: **Rwy 7**, NA-terrain. **Rwy 16L**, std. w/ min. climb of 730' per NM to 8000, or 600-1½ w/ min. climb of 480' per NM to 8000, or 2700-3 for climb in visual conditions. **Rwy 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. **Rwy 25**, std. w/ min. climb of 470' per NM to 7800, or 2700-3 for climb in visual conditions. **Rwy 34L**, std. w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions. **Rwy 34R**, std. w/ min. climb of 480' per NM to 7000, or 500-1½ 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. . . **Rwy 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.

## RENO, NV (CON'T)

### RENO/TAHOE INTL (CON'T)

NOTE: **Rwy 16L**, multiple poles, trees, bushes and terrain beginning 618' from DER, 133' left of centerline, up to 20' AGL/4961' MSL. **Rwy 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. **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. **Rwy 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. **Rwy 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. **Rwy 34L**, heading as assigned by ATC; requires minimum climb of 460' per NM to 7700. **Rwy 34R**, heading as assigned by ATC; requires minimum climb of 410' per NM to 8100.

## RICHFIELD, UT

### RICHFIELD MUNI (RIF)

#### TAKEOFF MINIMUMS AND (OBSTACLE)

#### DEPARTURE PROCEDURES

AMDT 1 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, use RICHFIELD (RNAV) DEPARTURE. **Rwy 19**, use HAMET (RNAV) DEPARTURE.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

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

17089

## ROOSEVELT, UT

ROOSEVELT MUNI (74V)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 2 16315 (FAA)

TAKEOFF MINIMUMS: **Rwy 7**, std. **Rwy 25**, std. w/min.  
climb of 300' per NM to 6100 or 1300-3 for VCOA.DEPARTURE PROCEDURE: **Rwy 7**, turn right. **Rwy 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-290 at or above 8000; R-291 CW R-039 at or above 10000. Then climb on course.VCOA: **Rwy 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.NOTE: **Rwy 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. **Rwy 25**, NAVAID 39' from DER, 112' left of centerline, 2' AGL/5177' MSL. Tree 95' from DER, 384' left of centerline, 9' AGL/5179' 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 (SJN)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1B 16315 (FAA)

TAKEOFF MINIMUMS: **Rwys 3, 32, 14**, std. **Rwy 21**, 700  
-2% or standard w/min. climb of 378' 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 SJN VORTAC holding pattern (hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.NOTE: **Rwy 03**, sign 15' from DER, 125' left of centerline, 3' AGL/5736' MSL. **Rwy 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 light 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/5784' MSL. Vehicle on road 559' from DER, crossing centerline, 15' AGL/5762' MSL. **Rwy 32**, vehicle on road and generator utility beginning 34' from DER, 3' right of centerline, up to 15' AGL/5745' MSL. Generator utility 40' from DER, 79' left of centerline, 10' AGL/5736' MSL. Vehicle on road 102' from DER, crossing centerline, 15' AGL/5741' MSL. Buildings beginning 201' from DER, 327' left of centerline up to 5743' MSL. Pole 307' from DER, 570' left of centerline, up to 30' AGL/5757' MSL. **Rwy 21**, tree and fence 15' from DER, 248' left of centerline, 5767' MSL. Trees and buildings beginning 23' from DER, 276' right of centerline, up to 5798' MSL. Trees beginning 92' from DER, 27' left of centerline, up to 5778' MSL. Fence beginning 208' from DER, crossing centerline, up to 5738' MSL. Vehicles on road 265' from DER, crossing centerline, 15' AGL/5756' MSL. Trees, buildings, signs and poles beginning 285' from DER, 2' right of centerline, up to 5781' MSL. Trees, buildings, signs and poles beginning 597' from DER, 3' left of centerline, up to 5780' MSL. Trees, buildings and poles beginning 808' from DER, 10' right of centerline, up to 5833' MSL. Trees, buildings and poles beginning 867' from DER, 3' left of centerline, up to 5788' MSL. Trees beginning 1257' from DER, 20' left of centerline, up to 5816' MSL. Buildings, poles and trees beginning 3704' from DER, 662' right of centerline, up to 5914' MSL. Poles beginning 3491' from DER, 1293' left of centerline, up to 5872' MSL. Communications tower 2.2 NM from DER, 1415' left of centerline, 199' AGL/6356' MSL. Pole 2.2 NM from DER, 1467' left of centerline, 31' AGL/6133' MSL.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

17089

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



# 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 11 10042 (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 via heading 189° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 16R**, climb to 10000 via heading 161° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 16L**, climb to 10000 via heading 161° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 17**, climb to 10000 via heading 166° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 32**, climb to 9,000 via heading 359° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 34L**, climb to 9000 via heading 341° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 34R**, climb to 9000 via heading 341° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 35**, climb to 9000 via heading 336° and OGD R-153 to OGD VORTAC before proceeding on course.

NOTE: **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, up to 17' AGL/4241' MSL. **Rwy 32**, ATC tower 5266' from DER, 1767' left of centerline, 335' AGL/4549' MSL. Crane 5196' from DER, 1630' left of centerline, 240' AGL/4463' MSL. Flag on obstruction light 5153' from DER, 1619' left of centerline, 249' AGL/4463' MSL. Aircraft beginning 989' from DER, 722' left of centerline, up to 79' AGL/4306' MSL. **Rwy 34R**, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL. **Rwy 35**, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

## SOUTH VALLEY RGNL (U42)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 11069 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 300' per NM to 10700. **Rwy 34**, std. with a min. climb of 330' per NM to 9000.

DEPARTURE PROCEDURE: **Rwy 16**, climbing left turn to 10700 on FFU R-341 to FFU VORTAC, continue climb in hold in FFU VORTAC holding pattern (hold South, right turns, 008° inbound) to cross FFU VORTAC at or above MEA for route of flight. **Rwy 34**, climbing right turn to 9000 on TCH R-161 to TCH VORTAC, continue climb in hold in TCH VORTAC holding pattern (hold Northwest, right turns, 120° inbound) to cross TCH VORTAC at or above MEA for route of flight.

NOTE: **Rwy 16**, bush 671' from DER, 490' right of centerline, up to 25' AGL/4629' MSL. Vehicles on road 692' from DER, right and left of centerline, up to 17' AGL/4626' MSL. Poles beginning 1000' from DER, 465' right of centerline, up to 30' AGL/4638' MSL.

## SCOTTSDALE, AZ

### SCOTTSDALE (SDL)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 21**, use MARICOPA DEPARTURE.

## 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: **Rwy 3**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 21**, Use OATES RNAV DEPARTURE.

## SHOW LOW, AZ

### SHOW LOW RGNL (SOW)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11013 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb on heading 360° to 7800 before proceeding on course. **Rwy 6**, climb on heading 360° to 8100 before proceeding on course. **Rwy 21**, climb on heading 255° to 7700 before proceeding on course. **Rwy 24**, climb on heading 243° to 7600 before proceeding on course.

NOTE: **Rwy 3**, trees beginning 89' from DER, 429' left of centerline, up to 33' AGL/6413' MSL. **Rwy 21**, trees, tank, terrain, poles and buildings beginning 94' from DER, 5' left of centerline, up to 76' AGL/6519' MSL. Trees and terrain beginning 124' from DER, 25' right of centerline, up to 20' AGL/6431' MSL. **Rwy 24**, poles and catenary beginning 704' from DER, 4' left of centerline, up to 59' AGL/6439' MSL. Poles, catenary, electrical system, and terrain beginning 53' from DER, 78' right of centerline, up to 58' AGL/6438' MSL.

## SPRINGVILLE, AZ

### SPRINGVILLE MUNI (JTC)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 96228 (FAA)

TAKEOFF MINIMUMS: **Rwy 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.

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

## TAYLOR, AZ

TAYLOR MUNI (TYL)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 11125 (FAA)

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

DEPARTURE PROCEDURE: **Rwy 3**, climb heading  
030° to 8000 before turning on course. **Rwy 21**, climb  
heading 210° to 8000 before turning on course.

NOTE: **Rwy 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. **Rwy 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 1 88350 (FAA)

TAKEOFF MINIMUMS: **Rwys 11, 29**, NA. **Rwys 15, 33**,  
2600-2 or std. with a min. climb of 260' per NM to  
8000.

DEPARTURE PROCEDURE: **Rwy 15**, turn left. **Rwy 33**,  
turn right. Climb direct TPH VORTAC. Continue climb  
in holding pattern (NE, right turns, 246° inbound) to  
depart TPH VORTAC at or above 8000. Climb on  
course to MEA or assigned altitude.

## TONOPAH TEST RANGE (KTNX)

TONOPAH, NV

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 12096

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

OBSTACLES: **Rwy 14**, Terrain, 5582' MSL, 1204' from  
DER, 823' right of centerline. Terrain, 5565' MSL, 63'  
from DER, 517' right of centerline. Terrain, 5564' MSL,  
46' from DER, 480' right of centerline. Terrain, 5561'  
MSL, 0' from DER, 353' right of centerline. Terrain,  
5558' MSL, 62' from DER, 200' right of centerline.  
Terrain, 5561' MSL, 14' from DER, 292' right of  
centerline. Terrain, 5561' MSL, 0' from DER, 287' right  
of centerline. Terrain, 5559' MSL, 0' from DER, 222'  
right of centerline. Surveyed terrain, 5560' MSL, 215'  
from DER, 427' right of centerline. **Rwy 32**, Terrain,  
5476' MSL, 0' from DER, 500' left of centerline.  
Terrain, 5476' MSL, 19' from DER, 465' left of  
centerline. Terrain, 5476' MSL, 110' from DER, 529'  
left of centerline.

## TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY (TVY)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 3 13234 (FAA)

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

**Rwy 35**, std. w/min. climb of 380' per NM to 9000 or  
5600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 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. **Rwy 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.

NOTE: **Rwy 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, 486' right of centerline, up to 35'  
AGL/4399' MSL. Pole 1000' from DER, 409' left of  
centerline, 42' AGL/4363' MSL. Pole 1092' from DER,  
118' right of centerline, 42' AGL/4363' MSL. Tree 1369'  
from DER, 393' right of centerline, 35' AGL/4381' MSL.  
Tree 2018' from DER, 257' right 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 INTL (TUS)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 5 12208 (FAA)

TAKEOFF MINIMUMS: **Rwy 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 ... **Rwy  
11L/R**, climb 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.

30 MAR 2017 to 27 APR 2017

30 MAR 2017 to 27 APR 2017

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

## TUSCON, AZ (CON'T) TUSCON INTL (CON'T)

NOTE: **Rwy 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. **Rwy 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. **Rwy 11R**, tree 584' from DER, 176' right of centerline, 25' AGL/2645' MSL. **Rwy 21**, bush 104' from DER, 256' left of centerline, 12' AGL/2572' MSL. RR 248' from DER, right to left of centerline, 23' AGL/2582' MSL. Bush 549' from DER, 384' left of centerline, 33' AGL/2583' MSL. Tree 701' from DER, 144' left of centerline, 37' AGL/2587' MSL. Pole 950' from DER, 166' left of centerline, 38' AGL/2588' MSL. Pole 1028' from DER, 89' left of centerline, 46' AGL/2599' MSL. Pole 1298' from DER, 594' left of centerline, 66' AGL/2616' MSL. Electrical system 1445' from DER, 319' left of centerline, 55' AGL/2605' MSL. Bush 141' from DER, 330' right of centerline, 24' AGL/2574' MSL. Bush 454' from DER, 138' right of centerline, 26' AGL/2576' MSL. Electrical system 1176' from DER, 37' right of centerline, 48' AGL/2598' MSL. **Rwy 29L**, aircraft on ramp 2723' from DER, 348' left of centerline, up to 30' AGL/2680' MSL. **Rwy 29R**, aircraft on ramp 2779' from DER, 1056' left of centerline, up to 30' AGL/2680' MSL.

## VERNAL, UT

### VERNAL RGNL (VEL)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKEOFF MINIMUMS: **Rwy 16**, 1500-2 or std with a min. climb of 250' per NM to 7000'. **Rwy 25**, 1500-2 or std. with a min. climb of 390' per NM to 7000'. **Rwy 34**, 1600-2 pr std. with a min. climb of 330' per NM to 7000'.

DEPARTURE PROCEDURE: **Rwys 7,34**, turn right.

**Rwys 16,25**, turn left. All aircraft climb direct VEL. Aircraft departing V391 S-bound climb on course. All others climb in holding pattern (SE, right turns, 322° inbound). Aircraft SW-bound V208 depart VEL at or above 8400'; all others depart VEL at or above 9500'. Continue climb on course to MEA or assigned altitude.

## WENDOVER, UT

### WENDOVER (ENV)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 16091 (FAA)

TAKEOFF MINIMUMS: **Rwy 26**, std. w/min. climb of 300' per NM to 5900. **Rwy 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.

NOTE: **Rwy 12**, bush 92' from DER, 258' left of centerline, 4' AGL/4227' MSL. **Rwy 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.

## 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: **Rwy 2**, 700-2 or std. with a min. climb of 500' per NM to 8000. **Rwy 20**, 600-2 or std. with a min. climb of 260' per NM to 8200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right. **Rwy 20**, turn left direct to GUP VORTAC before procedure on course.

NOTE: **Rwy 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, 71' AGL/7316' MSL. Terrain 7449' from DER, 1612' left of centerline, 6991' MSL. Terrain 8776' from DER, 1851' left of centerline, 7109' MSL. Tree 9665' from DER, 1326' right of centerline, 7340' MSL. Tree 11326' from DER, 355' left of centerline, 7351' MSL. **Rwy 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: **Rwy 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.

**Rwy 2**, turn left. **Rwy 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 Fesko Int. Northbound aircraft continue via INA R-326 and SDO R-144 direct SDO VORTAC.

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

## WINSLOW, AZ

WINSLOW-LINDBERGH RGNL (INW)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 14345 (FAA)

DEPARTURE PROCEDURE: **Rwy 22**, climb to 6000, then right turn direct INW VORTAC and hold, thence . .

. . **Rwy 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.

NOTE: **Rwy 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. 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. **Rwy 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. REIL 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. **Rwy 4**, light 4' from DER, 425' left of centerline, up to 4920' MSL. Obstruction light on lighted 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. **Rwy 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/4993' MSL. Vertical point 31' from DER, 479' left of centerline, up to 4946' MSL. Building 525' 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

09323

Diverse departures not authorized between 360° CW 055° from 25 NM to 30 NM.

**Rwy 3L**: Cross DER at or above 35' AGL/228' MSL. Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

**Rwy 3R**: Cross DER at or above 35' AGL/242' MSL. Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

**Rwy 21L**: Cross DER at or above 35' AGL/223' MSL. Diverse departures auth.

**Rwy 21R**: Cross DER at or above 35' AGL/227' MSL. Diverse departures auth.

**Rwy 8**: Cross DER at or above 35' AGL/231' MSL. Diverse departures auth. Fr 069° CW 123°, std with minimum climb of 230'/NM to 3500'.

**Rwy 26**: Cross DER at or above 35' AGL/230' MSL. Diverse departures auth.

**Rwy 17**: Cross DER at or above 35' AGL/217' MSL. Diverse departures auth. Fr 068° CW 109°, std with minimum climb of 220'/NM to 3500'.

**Rwy 35**: Cross DER at or above 35' AGL/231' MSL. Diverse departures auth.

30 MAR 2017 to 27 APR 2017

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